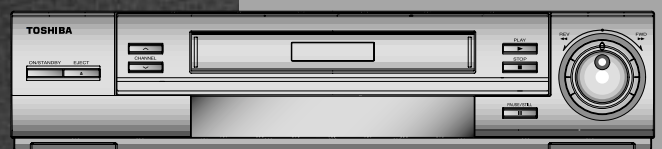
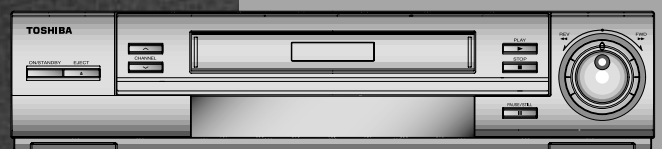


TOSHIBA

The power to open people's eyes

V853UK



Video Tape Recorder

OWNER'S MANUAL

For your safety

This equipment has been designed and manufactured to meet international safety standards but, like any electrical equipment, care must be taken if you are to obtain the best results and safety is to be assured. So, please read the points below for your own safety. They are of a general nature, intended to help you with all your electronic consumer products and some points may not apply to the goods you have just purchased.

Some “DOS” and “DON'Ts” for you

Air Circulation ...

All Toshiba television stands are designed to house Toshiba video recorders and other Toshiba AV equipment whilst providing adequate ventilation. However, if you do not use a Toshiba stand, ensure that there is free space of at least 10cm at the sides and rear and 7cm above the video recorder to provide adequate ventilation.

Moisture Condensation ...

Never operate the VTR immediately after moving it from a cold location to a warm location. Leave it for TWO TO THREE hours without operating it. When the VTR is exposed to such a change in temperature, moisture may condense on the cylinder inside of the VTR - one of its most crucial internal parts. If moisture condensation occurs inside the VTR, the cassette tape may stick to the surface of the cylinder causing damage to the tape itself and the video head.

Mains Supply ...

The mains supply required for this equipment is 220 - 240V AC 50Hz. Never connect to a DC supply or any other power source. DO ensure that the VTR is not standing on the mains lead. DO NOT cut off the mains plug from this equipment, this incorporates a special Radio Interference Filter, the removal of wich will impair its performance. In the UK, the fuse fitted in this plug is 3A. and is approved by ASTA or BSI to BS1362. It should only be replaced by a correctly rated and approved type and the fuse cover must be refitted. IF IN DOUBT PLEASE CONSULT A COMPETENT ELECTRICIAN.

Do ...

- DO** read the operating instruction before you attempt to use the equipment.
- DO** ensure that all electrical connections (including the mains plug, extension leads and inter-connections between places of equipment) are properly made and in accordance with the manufacturers' instructions. Switch off and withdraw the mains plug when making or changing connections.
- DO** consult your dealer if you are ever in doubt about the installation., operation or safety of your equipment.
- DO** be careful with glass panels or doors on equipment.

Do not ...

- DON'T** remove any fixed cover as this may expose dangerous voltages.
- DON'T** obstruct the ventilation openings of the equipment with items such as newspaper, tablecloths, curtains, etc. Overheating will cause damage and shorten the life of the equipment.
- DON'T** allow electrical equipment to be exposed to dripping or splashing or objects filled with liquids, such as vases, to be placed on the equipment.
- DON'T** place hot objects or naked flames sources such as lighted candles or nightlights on, or close to equipment. High temperatures can melt plastic and lead to fires.
- DON'T** use makeshift stands and NEVER fix legs with wood screws. To ensure complete safety, always fit the manufacturer's approved stand or legs with the fixings provided according to the instructions.
- DON'T** listen to headphones at high volume, as such use can permanently damage your hearing.
- DON'T** leave equipment switched on when it is unattended, unless it is specifically stated that it is designed for unattended operation or has a standby mode. Switch off using the switch on the equipment and make sure your family know how to do this. Special arrangements may need to be made fo infirm or handicapped people.


DON'T continue to operate the equipment if you are in any doubt about it working normally, or it is damages in any way-switch off, withdraw the mains plug and consult your dealer.

ABOVE ALL ~ NEVER let anyone, especially children, push anything into holes, slots or any other openings in the case ~ this could result in a fatal electric shock.

NEVER guess or take chances with electrical equipment of any kind ~ it is better to be safe than sorry.

Contents

GENERAL INFORMATION	For your safety – Some DOS and DON'Ts for you. Please read this page before you begin	2
	General Identification of the VTR Controls – Front Controls, Rear Connections & Front Display Panel	4
	Your Remote Control – Familiarise yourself with the At a Glance Illustration	5
	Preparing your Remote Control – Batteries, caring for the remote control and Effective Range information	6
CONNECTIONS	Connecting your VTR - Deciding how to connect your VTR	7
	Connecting your VTR to the TV using the coaxial cable and SCART cable	8
	Connecting the Audio Output cable	9
	Satellite Receiver - Connecting a Satellite Receiver	10
	Plug & Auto Set Up	11
	Tuning your Television for the VTR	12
	Setting up your VTR – Setting the date and time	13
	Displaying/Hiding On-Screen Information	14
GETTING STARTED	Installation - Setting the VTR Output channel, Presetting the stations Automatically,	15-16
	Presetting the stations Manually, Satellite Tuning, Satellite Setting,	17-21
	How to Preset type of the Satellite Receiver, How to Select the Satellite Channel (Satellite Control)	21-22
	List of Compatible Satellite Receivers, Digital Receiver, common satellite receiver channel orders	23-24
	Clearing a Preset Station	25
	Changing the Preset Station Table	26
	Set top box Monitor Functions	27
	RECORDING	Recording Television Broadcast – Selecting the Cassette Type, Selecting the recording Speed, NICAM
NexTViewLink Function of this VTR – TV Programme Download, TV Picture Record Setting		30-32
Direct Record Procedure and TV Picture Recording		33-34
Protecting a Recorded Cassette		35
	Recording a Programme Immediately	35
	Recording a Programme with Automatic Stop	36
	VIDEO Plus+ EXTEND, VIDEO Plus+ System Recording – Modifying VIDEO Plus+ Programming	37-39
	Using the TIMER Programming Feature	40
	Setting a Satellite Channel Recording	41
	Checking a Preset Recording – Canceling a Preset Recording	42
	Advance Recording Feature – Connecting an RCA Audio/Video Input Cable,	43
	Using the assemble edit function, Recording from another VTR or Camcorder	44
	Audio Dubbing a Pre-recorded Cassette, Audio Dubbing using microphone, VPS/PDC Default	45-46
	Playing back - Playing a cassette, Adjusting picture Alignment manually, Picture Control	47-49
	Format 16:9 (WIDE SCREEN)	50
	Selecting the colour mode	51
BASIC OPERATION	Selecting the Audio output mode	52
	Searching for a Sequence - Playing a cassette in slow motion, Playing a sequence frame by frame	53
	Picture search, Fast Forward/Rewind	54
	Searching for a Specific Sequence	55
	Auto Repeat Play	55
	Other Functions and Useful Recommendations	56-58
	Auto Power Off, Eco mode-reducing standby power consumption, Using the tape counter	59-60
	Using the TV buttons on the remote control - Multi Brand Remote controller	61
ADDITIONAL FUNCTIONS	TV Frequency Table (System -I)	61
	For your guidance, before calling for help... Problem and Solutions	62
	Specification and Accessories information on the V853UK VTR	Back Cover
	GLOSSARY	3

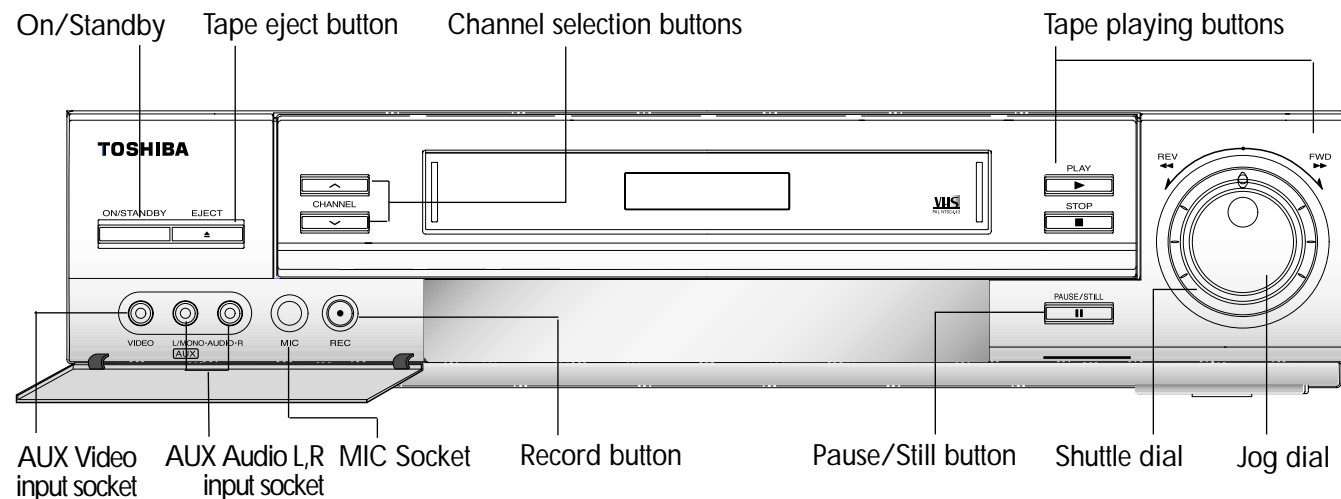


Toshiba customer helpline
0115 9766958

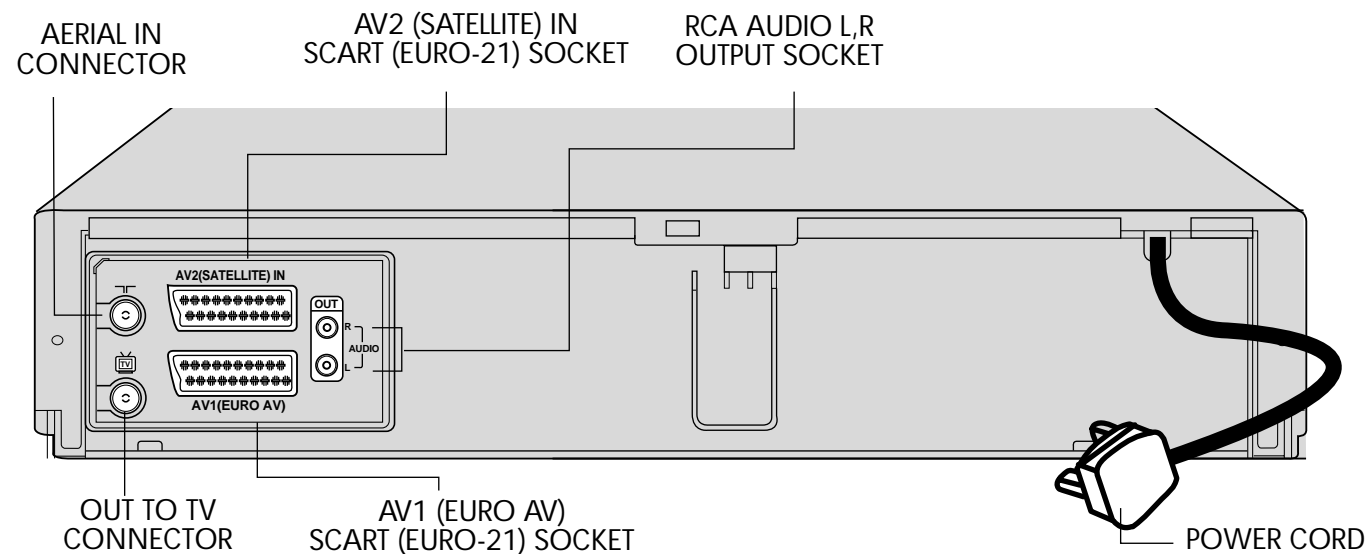


General Identification of the VTR Controls

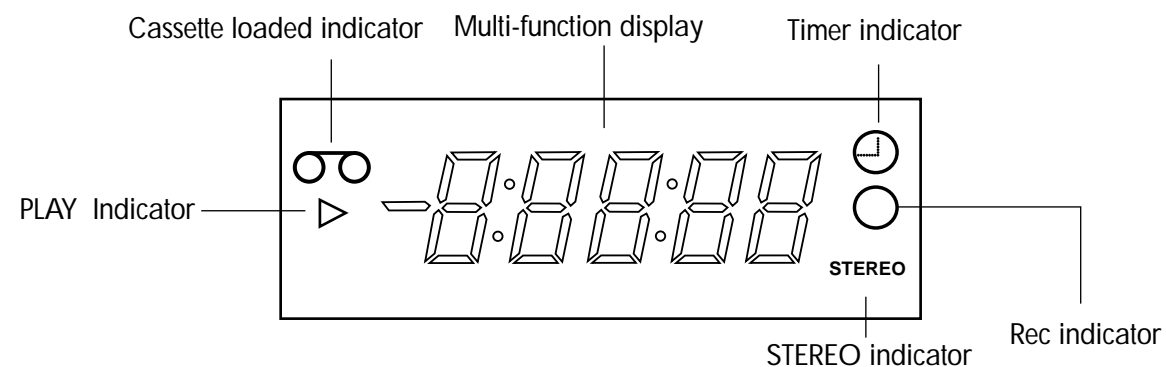
Front Controls:



Rear Connections:



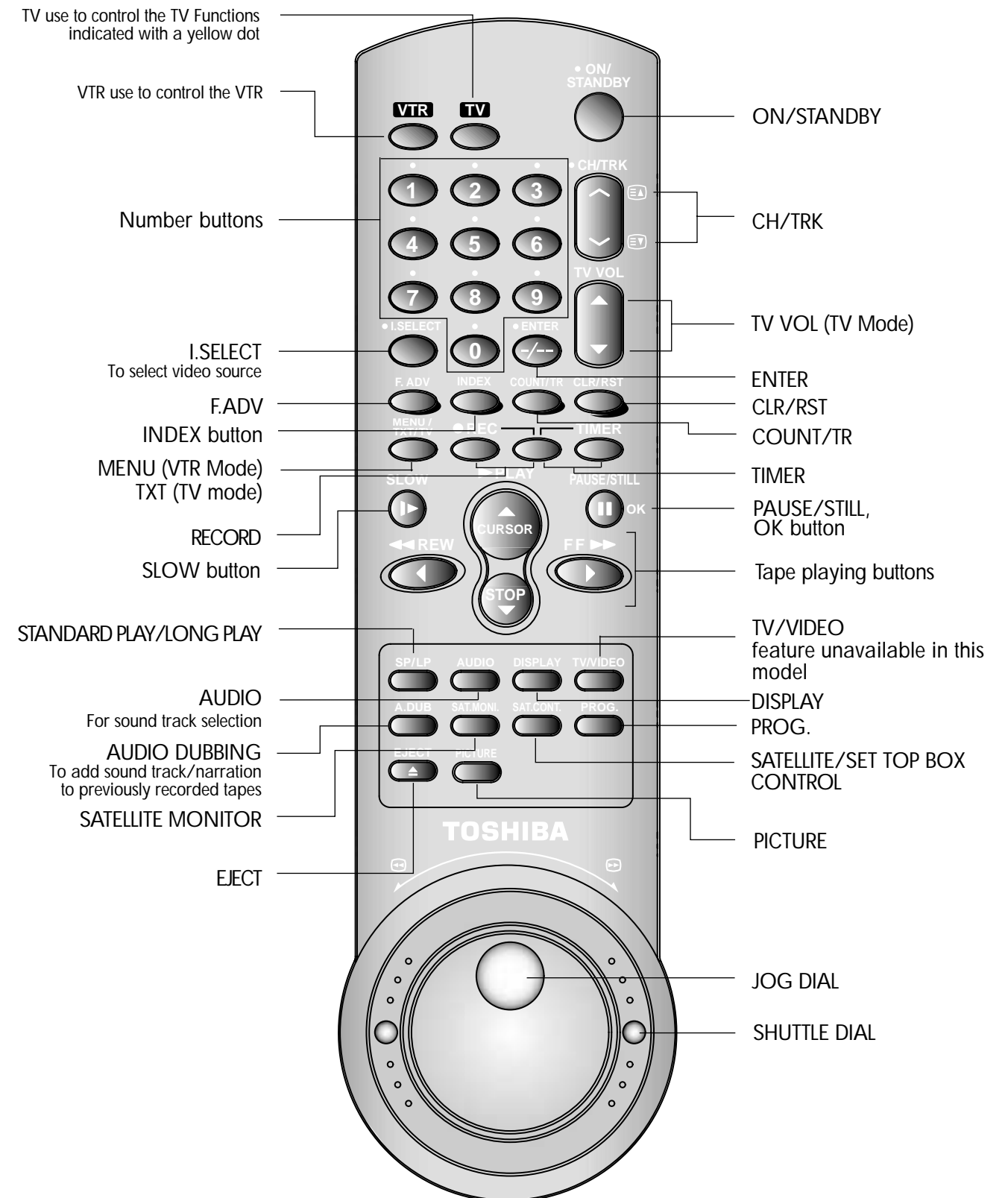
Front Display Panel:



Your Remote Control

The illustration below is to show a quick guide to the Remote Control. Detailed instructions occur throughout the book.

At a Glance:



Preparing your Remote Control

The Remote Control handset is needed to operate your new Toshiba video recorder. If used correctly, it should give years of trouble-free use. Please take good care of it, always observing the correct polarities when replacing the batteries.

Batteries:

Carefully open the battery compartment lid on the rear casing.

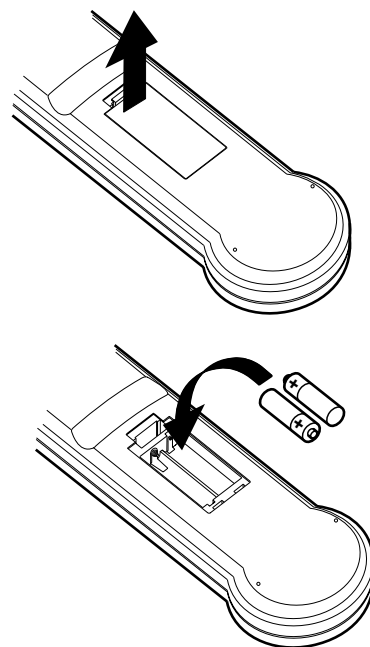
Insert both batteries taking care to fit them the right way round (+ and -).

The two batteries supplied are Cadmium- and Mercury-free (UM-4, AAA, IECR03, 1.5v).

Replace the cover of the battery compartement.

CAUTION:

- DO NOT** throw your batteries into a fire. Dispose of your batteries in a designated disposal area.
- DO NOT** mix an old battery with a new one.
- DO NOT** mix battery types.



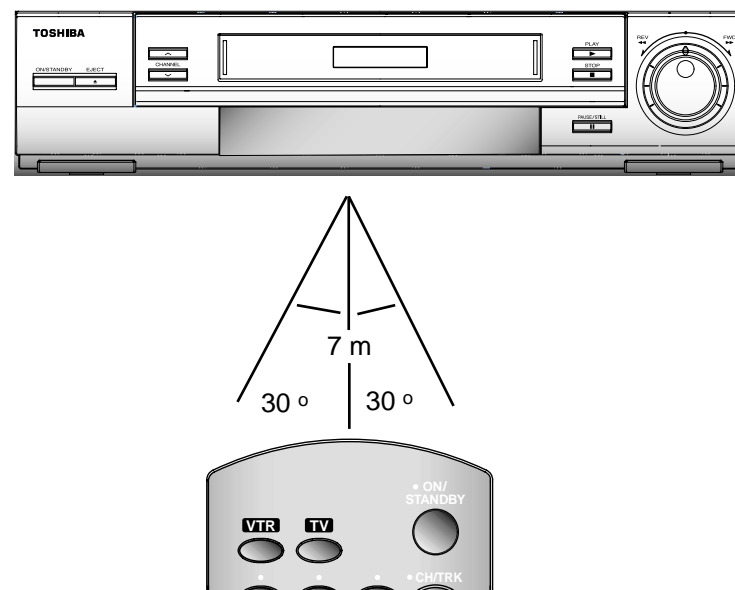
Caring for the Remote controller

- When using the Remote Control, press the buttons at intervals of about 1 second to ensure the correct mode of operation.
- Keep the Remote Control away from extremely hot or humid places and avoid sharp impacts.
- Do not expose the remote sensor of the VTR to a strong light source such as direct sunlight or illumination (especially high-frequency lighting) when using the remote control.
- Be careful not to spill water on the Remote Control or to place it on anything wet.

Effective Range for the Remote Control:

For optimum performance your Remote Control will operate within a distance of 7 metres and up to 30° from the central position.

If the Remote Control does not work check whether the correct mode is set by pressing the VTR or TV button depending on the equipment you want to operate. Make sure there is no obstacle in the path of transmission and that the batteries are in good working order.









Connecting your VTR

You must take into account various factors when connecting audio or video system :

- Types of connectors available on your systems
- Systems connected permanently to the VTR (satellite receiver for example) or temporarily (camcorder for example)

Deciding how to connect your VTR

Your VTR is equipped with the following connector.

Connectors	Location	Type	Direction	Recommended Use
AV1	Rear 	SCART	In/Out	<ul style="list-style-type: none">TelevisionSatellite receiverOther VTR
AV2	Rear 	SCART	In	<ul style="list-style-type: none">Satellite receiverOther VTR
Audio output	Rear 	Audio RCA	Out	<ul style="list-style-type: none">Audio Hi-Fi system
OUT TO TV	Rear 	75Ω coaxial	Out	<ul style="list-style-type: none">Television
IN FROM ANT.	Rear 	75Ω coaxial	In	<ul style="list-style-type: none">AerialCable television networkSatellite receiver
AUX	Front 	Audio/Video RCA	In	<ul style="list-style-type: none">Audio Hi-Fi systemCamcorderHi-Fi Stereo VTR

Important:

- Whenever you connect an audio or video system to your VTR, ensure that all element are switched off. Refer to the documentation supplied with your equipment for detail connection instructions and associated safety precautions.
- Applied to 2 scart TOSHIBA model: If you connect DVD player, satellite receiver or other audio/video equipments into the AV2 socket on the rear of the VTR, you have to select the normal video output in the video display menu of the DVD player, satellite receiver, or other audio/video equipments.

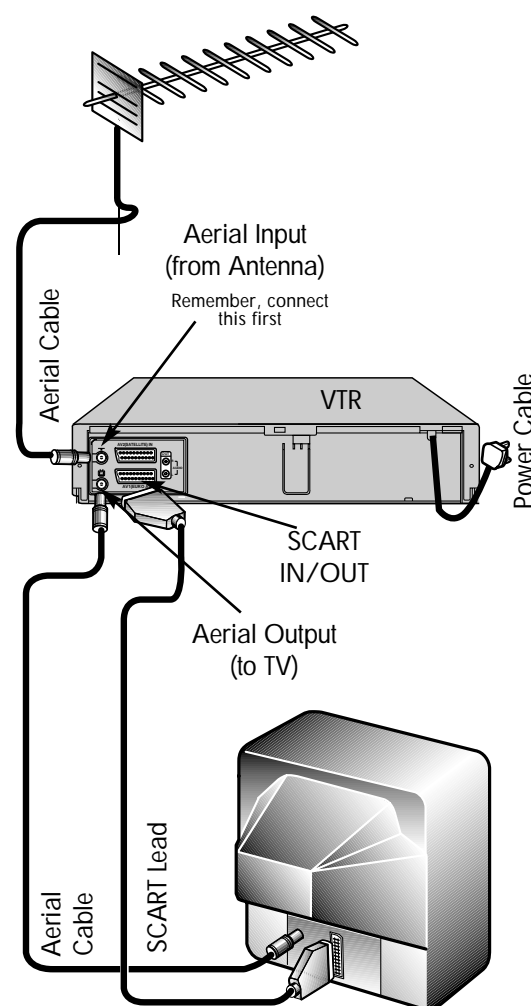
Connecting your VTR continued

To receive television programmes a signal must be received from one of the following sources:

- An outdoor aerial
- An indoor aerial
- A cable television network
- A satellite receiver

Connecting your VTR to the TV using the coaxial cable and SCART cable

Note: Make sure that both the television and the VTR are switched off before connecting the cables.



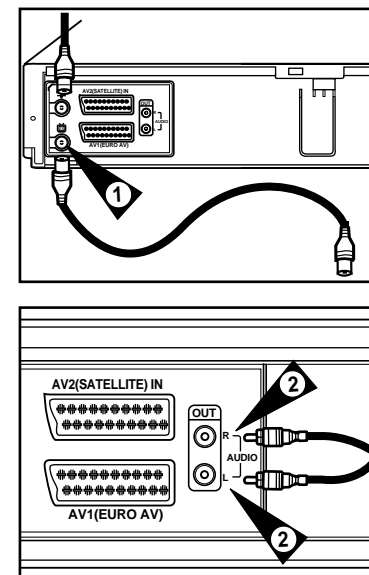
- 1 Remove the aerial or network input cable from the television.
- 2 Connect this cable to the 75Ω coaxial socket marked on the rear of your VTR.
- 3 Plug the coaxial cable supplied into the socket on your VTR.
- 4 Plug the other end of the coaxial cable into the connector previously used for the aerial on the television.
- 5 To obtain better quality pictures and sound on your television, you can also connect your VTR to the television via the SCART cable if your television is equipped with this type of connection. Connect one end of the SCART cable to the AV1 (EURO AV) socket on the rear of the VTR.
- 6 Plug the other end into the appropriate connector on the television.

Connecting your VTR continued

Connecting the Audio Output Cable

You can connect your VTR to a Hi-Fi system.

Example: You wish to take advantage of the quality of your Hi-Fi stereo system when watching a programme or recording via your VTR.



- 1 Connect the coaxial cable or SCART as indicated on page 8.
- 2 Plug the audio output cable into the audio connectors on the rear of your VTR.
Note : Respect the colour coding of the left and right channels.
- 3 Plug the other end of the audio cable into the appropriate input connectors on your Hi-Fi stereo system.

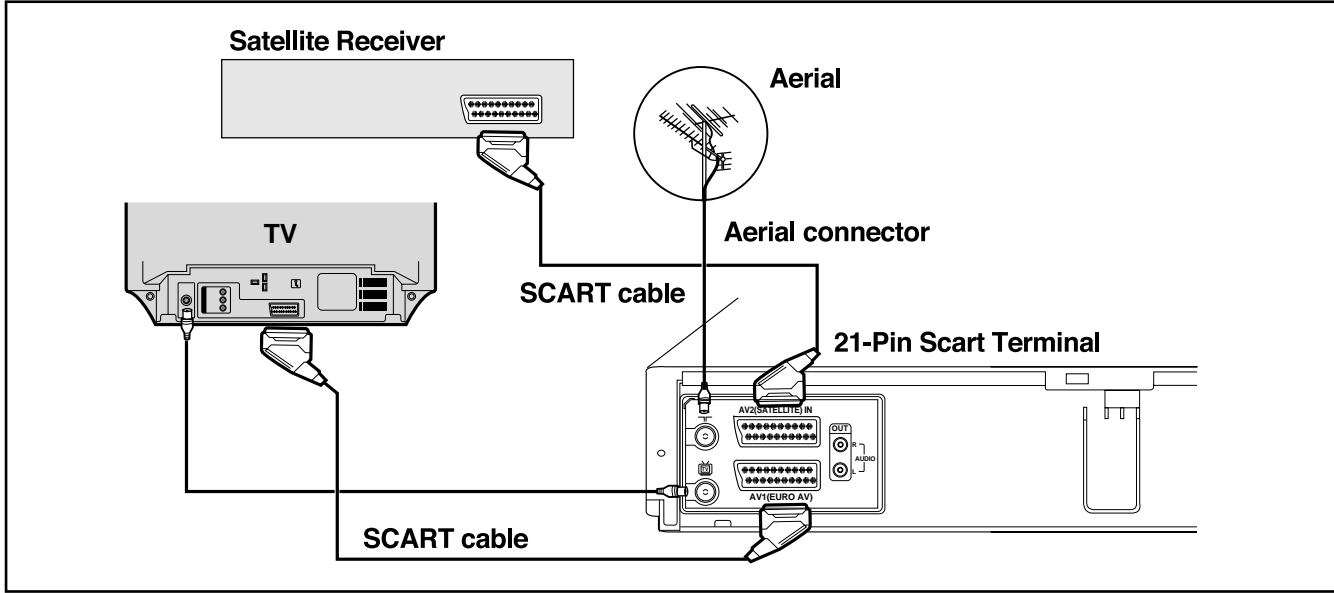
Important:

- Regardless of the type of connection chosen, you must always connect the coaxial cable supplied. Otherwise, no picture will be visible on the screen when the VTR is switched off.
- Make sure that both the television and the VTR are switched off before connecting the cables.

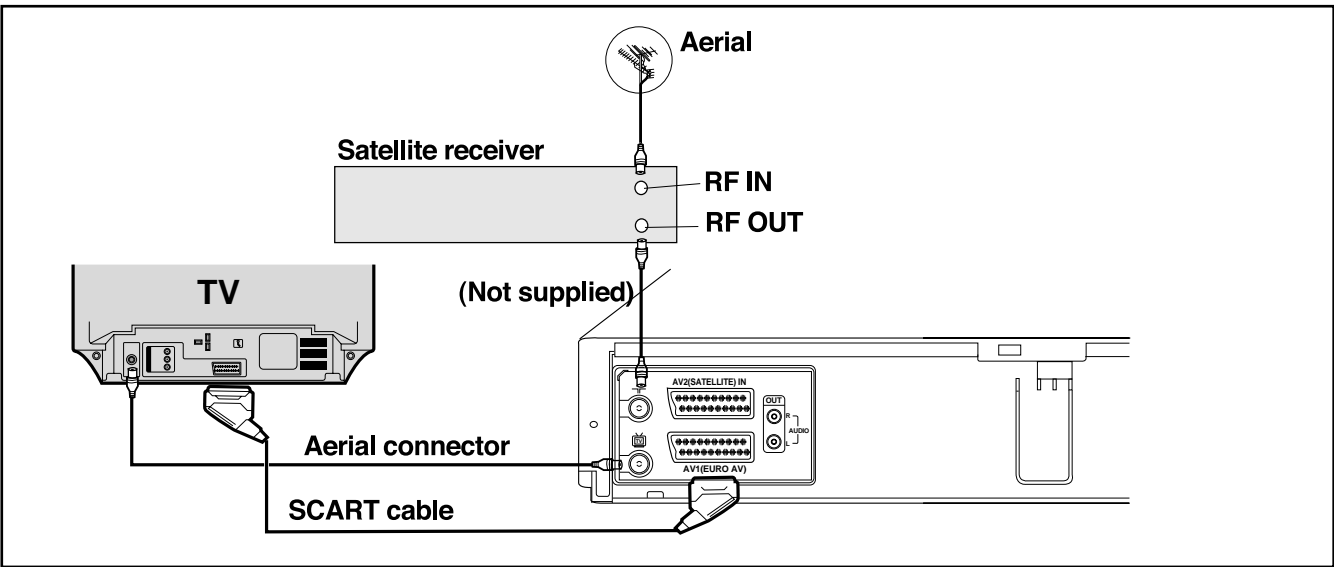
This VTR can be connected to your satellite receiver and you can enjoy watching or recording satellite programmes through the VTR.

Connecting a Satellite Receiver

By means of 21-pin Scart Cable:
If both your TV and Satellite receiver have a SCART, use a SCART cable (not supplied) to connect the VTR.

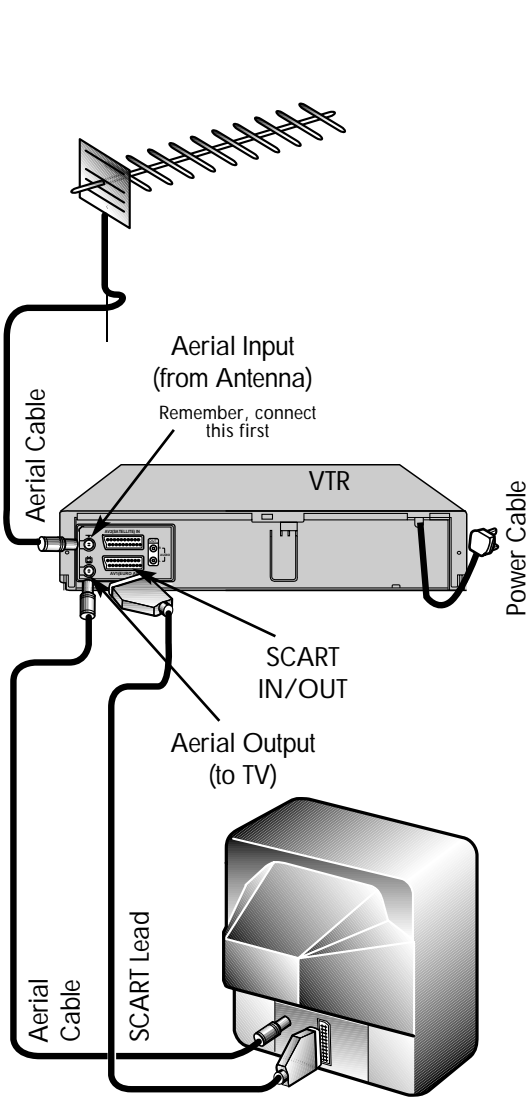


By means of RF Coaxial Cable:
After making this connection, you must preset the station received through the satellite tuner. And proceed with the satellite setting.

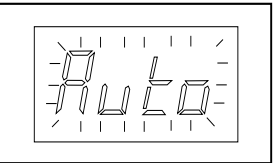
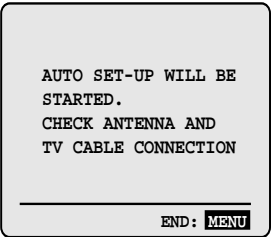


Your VTR will automatically set itself up when it is plugged into the mains for the first time. TV stations will be stored in memory. The process takes a few minutes. Your VTR will then be ready for use.

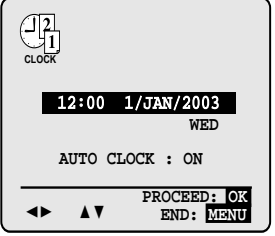
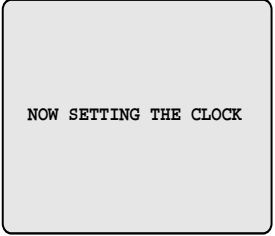
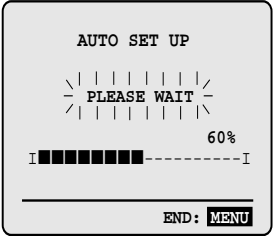
Plug & Auto Set Up



- 1 Connect the coaxial cable.
- 2 Plug the VTR into the mains. A message appears "AUTO SET-UP WILL BE STARTED. CHECK ANTENNA AND TV CABLE CONNECTION".



- 3 The process will finish after a few minutes. Then the date and time are set automatically from the broadcast signal, but this function will not operate if there is no teletext signal.



Tuning your Television for the VTR

You must tune your television for the VTR only if you are not using a Scart cable.

Tuning your television for the VTR

Note: To view pictures from your VTR when a Scart cable is used, the television must be set to the audio/video mode (AV).



- 1 Switch on the television.
- 2 Switch on the VTR by pressing ON/STANDBY on the front of the VTR or on the remote control.
- 3 Select a programme position on the television to be reserved for used with your VTR.
- 4 Insert the video cassette in the VTR. Check that the VTR starts reading the cassette; press ► PLAY or cursor (▲) button.
- 5 Start a scan on your television or set the television to UHF channel 36.
- 6 Fine tune the television until the pictures and sound are obtained clearly.
- 7 If you cannot find the pictures and sound, or there is interference from nearby channels, it may be necessary to change the setting of the VTR output channel (see Solving Problems section of this manual).
- 8 When the picture and sound are perfectly clear, store this channel at the desired programme position on the television.
Result : That programme is now reserved for use with your VTR.

Setting up your VTR

Your VTR contains a 24-hour clock and calendar used to:

- Automatically stop programme recording
- Preset your VTR to record a programme automatically

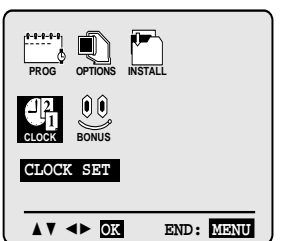
Setting the date and time

Note: You must set the date and time when:
You purchase the video cassette recorder

- The date and time are set automatically from the broadcast signal, but this function will not operate if there is no teletext signal.
- Do not forget to reset the time when you change clocks from winter to summer time and vice versa.



- 1 Press MENU on the remote control.
Result : The programming menu is displayed.
- 2 Press the corresponding ▲, ▼ or ◀, ▶ button to select the **CLOCK SET** option.
- 3 Press the OK button to select this option.
Result : The **CLOCK SET** menu is displayed.
- 4 Press ◀ or ▶ to select the hour, minutes, day, month and year.
Result : The option selected flashes.
- 5 Press the ▲ or ▼ button to increase or decrease the value.
Result : The day of the week is displayed automatically.
Note : You can hold the ▲ or ▼ button down to scroll more quickly through the values.
- 6 On completion, press MENU twice to exit the menu.



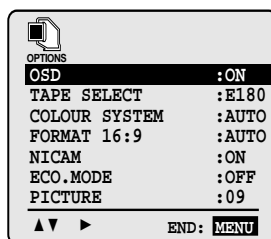
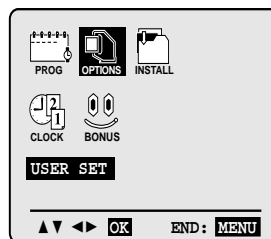
Displaying/Hiding On-Screen Information

Your VTR displays most information both on the VTR and the television. You can choose to display or hide this information on the television screen (except for the Index, Programming MENU, which cannot be hidden).

Displaying/Hiding On-Screen Information



- 1 Press MENU on the remote control.
Result: The programming menu is displayed.
- 2 Press the corresponding ▲, ▼ or ◀, ▶ button to select the **USER SET** option.
- 3 Press the OK button to select this option.
Result: The **USER SET** menu is displayed.
- 4 Press the corresponding ▲ or ▼ button, until the **OSD** option is selected.
- 5 To...
Display on-screen information
Hide on-screen information
Press ◀ or ▶, until...
ON is displayed.
OFF is displayed.
- 6 On completion, press MENU twice to exit the menu.



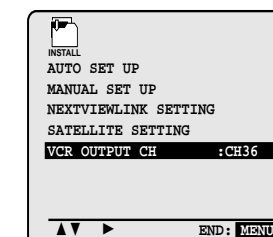
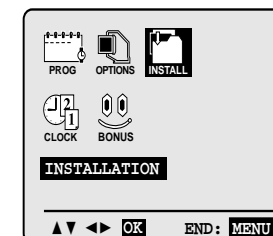
Installation

Your VTR output channel may need to be changed if the pictures suffer from interference or if your TV cannot find the pictures. Also, you can change the VTR output channel to adjust the frequency in which information is displayed on the screen.

Setting the VTR output channel



- 1 Press MENU on the remote control.
Result: The programming menu is displayed.
- 2 Press the corresponding ▲, ▼ or ◀, ▶ button to select the **INSTALLATION** option.
- 3 Press the OK button to select this option.
Result: The **INSTALLATION** menu is displayed.
- 4 Press the corresponding ▲ or ▼ button, until the **VCR OUTPUT CH** option is selected.
- 5 Select the required output channel (CH21~CH69) by pressing the ◀ or ▶ button.
- 6 On completion, press MENU twice to exit the menu. Then tune your television again (see page 12).



Installation continued

You do not need to preset the stations if you have already set them automatically (see Plug & Auto Set Up)

Presetting the stations automatically

Your VTR contains a built-in tuner used to receive television broadcasts.

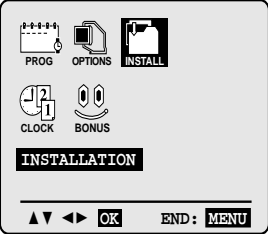

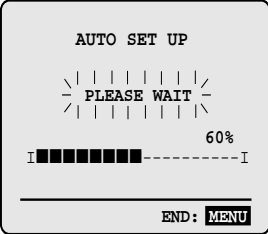
You must preset the stations received through the tuner. This can be done:

- Plug & Auto Set up (see page 11)
- Automatically
- Manually (see page 17)



NOTE :

- ♦ The time and date are set automatically from the broadcast signal. If the signal is weak or ghosting occurs, the time and date may not be set automatically. In this case, they should be set manually (see page 13).
- ♦ Once the auto scanning procedure has finished, some stations may have been stored more than once; select the stations with the best reception and delete the ones no longer required (see page 25).

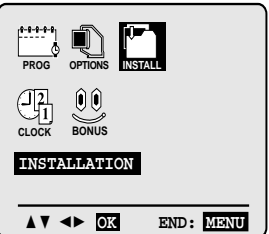
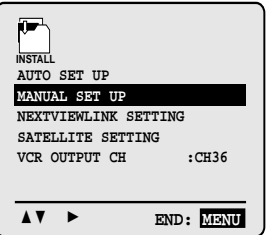
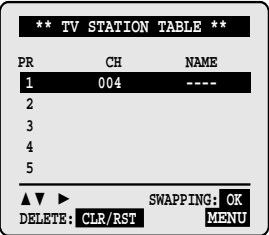
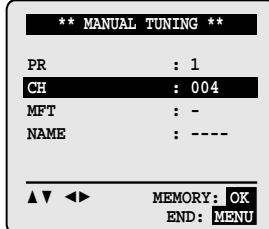
- 1 Press MENU on the remote control.
Result : The programming menu is displayed.
 - 2 Press the corresponding ▲, ▼ or ◀, ▶ button to select the **INSTALLATION** option.

 - 3 Press the OK button to select this option.
Result : The **INSTALLATION** menu is displayed.
 - 4 Press the corresponding ▲ or ▼ button, until the **AUTO SET UP** option is selected. And then press the ▶ button to select this option.
Result : A message appears, indicating that any channels already preset on your VTR will be deleted.

 - 5 Press OK to start the auto scanning.
Result : ♦ The **PLEASE WAIT** indication flashes on the television screen.

- ♦ The first frequency band is scanned and the first station found is displayed and stored.
 - ♦ The VTR then searches for the second station and so on.
 - ♦ When the automatic scanning procedure has finished, the VTR switches automatically to programme.
- Note : The number of stations automatically stored by the VTR depends on the number of stations that it has found (reception conditions, etc).
- 6 If you wish to cancel the auto scanning before the end, press the MENU button three times to exit the menu.

Installation continued

You do not need to preset the stations manually if you have already set them automatically.

Presetting the stations manually



- 1 Press MENU on the remote control.
Result : The programming menu is displayed.
- 2 Press the corresponding ▲, ▼ or ◀, ▶ button to select the **INSTALLATION** option.

- 3 Press the OK button to select this option.
Result : The **INSTALLATION** menu is displayed.
- 4 Press the ▲ or ▼ button, until the **MANUAL SET UP** option is selected.

- 5 Press the ▶ button to select this option.
Result : The **TV STATION TABLE** menu is displayed.

- 6 Press the ▲ or ▼ button to select a programme number as required.
- 7 Press the ▶ button to preset the station.
Result : The **MANUAL TUNING** menu is displayed.


Presetting the stations manually



- 8

Press ◀ or ▶ button to start scanning.

Result : The frequency band is scanned and the first station found is displayed.

If you know the number of the channel you want, press the numeric buttons on the remote control for example, for channel E21, first press "0" and then press "2", "1". (see page 61)
- 9

Press the ▲ or ▼ button to select **MFT**. This is useful when the channel scanned is not clear. Press ◀ or ▶ button to adjust for clear signal reception.
- 10

Press the ▲ or ▼ button until **NAME** is selected. The station name is set automatically from the broadcast signal.
- 11

To change the programme's name, press the ▶ button.

Result : The first letter of the name flashes.
- 12

To...

Select a character in the name

Move to the next or previous character

Then...

♦ Press the ▲ or ▼ button until the required character is displayed. (letter, numbers or "-" character).

♦ Press the ◀ or ▶ button respectively,
- 13

If you...

Wish to store the stations displayed

Do not wish to store the station displayed

Then...

♦ Press the corresponding ▲ or ▼ button, until the **MFT** is selected.

♦ Press the ◀ or ▶ button to adjust the picture, if necessary.

♦ Press OK to store the station.

♦ Press the corresponding ▲ or ▼ button, until the **CH** is selected.

♦ Press the ◀ or ▶ button to go on scanning the frequency band and display the next station.
- 14

Repeat this procedure from step 6 onward, until all the required stations have been stored.
- 15

On completion, press the MENU button three times to exit the menu.

When the RF connection on the satellite receiver connection page has been performed, the following settings must be carried out in order to activate satellite control.
These settings are not necessary when the 21-pin SCART cable has been used for the connection. (see page 10)

Satellite Tuning



- 1

Press MENU on the remote control.

Result : The programming menu is displayed.
- 2

Press the corresponding ▲, ▼ or ◀, ▶ button to select the **INSTALLATION** option.
- 3

Press the OK button to select this option.
- 4

Press the ▲ or ▼ button to select **MANUAL SET UP** option.
- 5

Press the ▶ button to select this option.

Result : The **TV STATION TABLE** menu is displayed.
- 6

Press the ▲ or ▼ button to select a programme number as required.
- 7

Press the ▶ button to preset the station.

Result : The **MANUAL TUNING** menu is displayed.
- 8

Press the button to start scanning until the RF OUT channel of the satellite receiver is displayed.
- 9

Press the OK button to store the station, and then press the MENU button three times to exit the menu.

Proceed with the setting instructions described below in order to activate the satellite receiver control functions.
These settings are supported only by the satellite receivers found on the list of compatible satellite receivers (see page 23).

Satellite Setting



- 1

Press MENU on the remote control.
Result : The programming menu is displayed.
- 2

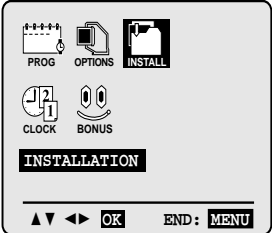
Press the corresponding ▲, ▼ or ◀, ▶ button to select the **INSTALLATION** option.
Then press the OK button to select this option.
Result : The **INSTALLATION** menu is displayed.
- 3

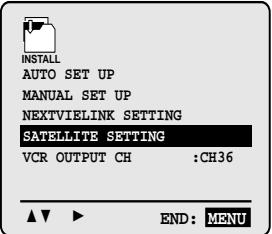
Press the ▲ or ▼ button to select the **SATELLITE SETTING** option and then press the ▶ button to select this option.
- 4

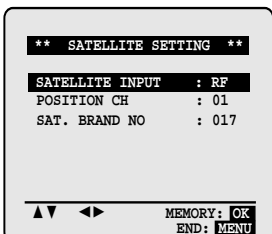
Select **SATELLITE INPUT**, press the ◀ or ▶ button to select input position where the satellite receiver is connected.

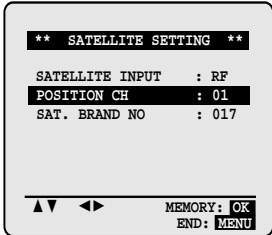
→RF→AV1→AV2→AUX
- 5

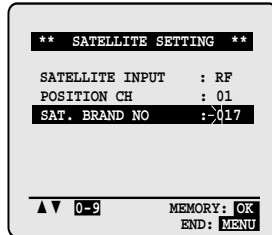
Select **POSITION CH** when **RF** has been selected. Press the ◀ or ▶ button to select position where the **RF OUT** of satellite receiver is memorized.
- 6

Press the corresponding ▲ or ▼ button to select **SAT. BRAND NO** .(see page 23)
Result : The first digit of receiver type number is flashed.
- 



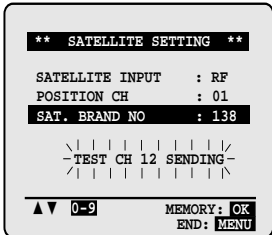


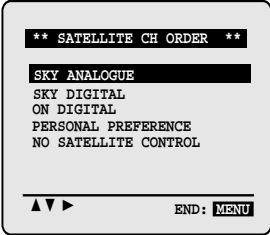


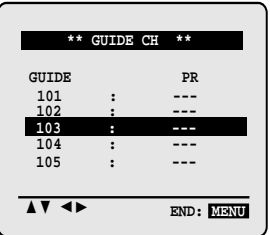


Satellite Setting (continue)

- 7

Press the numeric buttons to set receiver type number.
Result : When you enter the receiver type, the VTR sends a test signal to the satellite receiver to make sure that the receiver type has been entered correctly. The signal will set the satellite channel to 12. If channel 12 is displayed on your satellite receiver, it means the receiver type is set correctly. Several types may be allocated to one brand.
Enter one after the other until the channel shows 12.
Note :
 - Before pressing the numeric buttons to set receiver type, you must set the remote controller switch to VTR.
 - First check the list of compatible satellite receivers (see page 23).
 - It is not possible to control a receiver which is not on the list of compatible satellite receivers.If no codes work, Press MENU button then select NO SATELLITE CONTROL on SATELLITE CH ORDER menu. Go to step no 10
- 




- 8

You now need to tell the VTR the channel order on your satellite receiver. Most Satellite receivers are preset to either SKY ANALOGUE, SKY DIGITAL or ON DIGITAL order. If, however, you have changed the order then you will need to select PERSONAL PREFERENCE and change the VIDEO Plus+ system GUIDE numbers accordingly.
Select any of the SATELLITE CH ORDER and this will customise your VTR to your Satellite receiver.
- 9

If you select PERSONAL PREFERENCE you will need to select the channel order of the satellite receivers on GUIDE CH menu.
Press FF button to move the active cursor to PR position and select a PR number by using FF or REW button.
Press PLAY or STOP button for other channel orders selection and repeat step 9. Press MENU three times to exit.
- 10

If you selected NO SATELLITE CONTROL you will need to manually select the correct Satellite channel on the receiver when you want to record a satellite programme.
The set-up is now complete.

How to Preset the Type of Satellite Receiver

Note:

- ♦ The VTR may not be able to control some types or brands of satellite receiver, due to the choice of remote control coding being beyond our control.
- ♦ Check that the satellite receiver can be properly controlled.
- ♦ Try satellite broadcast timer recording once to check that timer recording works properly . (Refer to page 41).

The satellite receiver mode (Power On or Off) must be set before attempting to perform timer recording.
The procedure to set the mode can be divided into the following 3 types by satellite receiver. Check which one applies on the attached list before proceeding.

Preset Type	Controllable functions
A	No action needs to be taken. (The satellite receiver's power may even be OFF.)
B	Keep the satellite receiver's power OFF.
C	Keep the satellite receiver's power ON.

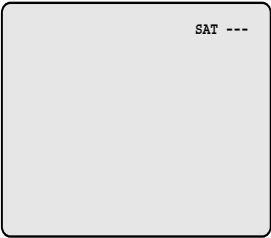
Please review the compatible satellite receiver list on page 23 before purchasing a new receiver. In order to assure satellite receiver control, Satellite Setting must be performed at the installation stage (see page 20).

A connected satellite receiver can be controlled by this VTR. It is possible to record many different satellite channel while you are absent, as the VTR can automatically change satellite channels as well. You can select satellite channels by using the remote controller.

How to Select the Satellite Channel (Satellite Control)



1 Press the SAT.CONT. button on the remote controller.
Result : “SAT - - -” is displayed on the screen and “SAT” is display on the front of the VTR.



2 Press the numeric buttons to be selected channel.
SAT 9 : 0 0 9
SAT 27 : 0 2 7
You need to press the “0” numeric button to select one or two digit satellite channels.

- Note:**
- ♦ There will be a slight delay after pressing a button before channel change occurs. This is due to signal conversion.
 - ♦ The range of satellite channels available for selection is 1 through 999.
 - ♦ With some satellite receivers, it is not possible to select as many as 999 satellite channels.
 - ♦ Some Satellite receivers may not be operated with this remote control. In these cases, operate the satellite receiver using its own remote control.

List of Compatible Satellite Receivers

BRAND NAME	MODEL NAME	RECEIVER TYPE	PRESET TYPE	BRAND NAME	MODEL NAME	RECEIVER TYPE	PRESET TYPE
ABAST	AB2020	134	A	NETWORK		9, 16, 17	C
ALBA		1, 2, 9, 16, 17, 65, 66	C	NOKIA	SAT820S, SAT8001S	143	A
ALDES		88	C	NOKIA	DVB9500S	144	A
ALLSAT		9, 16, 23	C	NOKIA	9800sDV3	154	C
AMSTRAD	SRD400, SRD600	5	A	NORDMENDE		17	C
AMSTRAD	SRD2000	124	A	OAK		112, 113, 114, 115	C
AMSTRAD		3, 4, 17, 55, 56, 76, 77, 89, 90, 91, 124	C	PACE	MSS100, MSS228-G, PRIMA	138	A
BECO	BS9000	145	B	PACE	MSS331-G	139	A
BEST/DISEXPRESS		26	C	PACE	MSS500, MSS1000	147	A
BIG BROTHER		7, 8, 17	C	PACE	2200	6	C
BT		17, 122, 123	C	PACE		8, 9, 16, 17, 23, 38	C
BUSH		2, 9, 16, 17, 65, 66	C	PANASONIC		17, 61	C
CABLE STAR		17, 101, 102, 103, 104	C	PHILIPS	STU401	150	A
CABLE TIME		17, 101, 102, 103, 104	C	PHILIPS	STU1320	136	A
CANALSATELLITE	CANAL+	133	A	PHILIPS	STV3510	73	A
CAMBRIDGE		17, 122, 123	C	PHILIPS		16, 17, 24, 46, 86, 136	C
CHANNEL MASTER		2, 3, 10, 17	C	REDIFFUSION		17, 25	C
CITYCOM	CCS170	141	B	RADIX	DELTA3000	127	B
DZMAC DECODER		17, 72	C	RADIX	ALPHA20	135	A
DECAST/C+SAT		72	C	REVOX		17, 21	C
DRAKE		17, 45	C	SABA	SSR-440	142	B
ECHOSTAR		13, 14, 17, 92, 93, 94	C	SAKURA		17, 62, 63, 68	C
FERGUSON		9, 15, 16, 17, 23, 38, 39, 59, 108	C	SALORA		17, 26, 27, 50, 51, 52	C
FUBA		49, 69, 70, 78, 96	C	SAMSUNG		17, 36	C
GI		105, 106, 107, 108, 110	C	SCHWAIGER		23, 43	C
GOODMANS	ST700	148	A	SCIENTIFIC ATLANTA		116, 117, 118	C
GRUNDIG	GSR1	146	A	SENTRA		10, 17	C
GRUNDIG	GRD300	149	A	SIEMENS		17, 23	C
GRUNDIG	STR2200S	150	A	SKYMASTER		129	C
GRUNDIG	STR400AP, STR641	28	A	SONY		17, 30	C
GRUNDIG		17, 19, 71, 125, 152, 153	C	STRONG		31, 130	C
HIRSCH MANN		11, 19, 47, 48	C	TATUNG/NIKKO		17, 32, 54, 58, 80, 81	C
HUTH		74	C	TECHNISAT		40, 41, 92, 93	C
HUTH	500FS	137	B	TECHNISAT	ARD1	140	A
IMPULSE		105, 106, 107, 108, 110	C	TELEDIREKT		23	C
ITT/NOKIA		17, 26, 27, 50, 51, 52, 143, 144	C	TELEWIRE	3000DX	130	B
JERROLD		105, 106, 107, 108, 110	C	TEXSCAN		17, 119, 120	C
JVC	TU-AD1000	123	A	THOMSON	ASR11T	128	A
JVC		17, 122, 152, 153	C	THOMSON	ASR08T	132	A
KATHREIN		12, 16, 20, 24, 29, 31, 46, 73, 97	C	THOMSON		7, 17, 39	C
LEMON	VOLKSBOX	151	C	TOSHIBA		17, 33, 34	C
LENCO		17, 49	C	TPS	SAGEM	126	B
MACOM		111	C	TRISTAR		17, 31	C
MASPRO		17, 20, 64, 67	C	UNIDEN		17, 67	C
MATSUI	RD600	146	A	VIDEOTRON		17, 105, 106, 107, 108, 109, 110, 121	C
MATSUI	OP10	128	A	VIDEOWAY		105, 106, 107, 108, 109, 110, 121	C
MATSUI	RD800	150	A	VISIOPASS		16, 24, 46	C
MATSUI		12, 125, 152, 153	C	VISIOPASS	D2MAC	73	A
MIMTEC		21	C	VORTEC		36	C
MORGAN		43	C	WISI		17, 35, 37, 44, 93	C
NAGAI PALSAT	AB2020	95, 96	C	XSAT	CDTV200	131	A
NEC		17, 22, 57	C				

Digital Receiver

Brand	Model	Receiver Type NO.	Preset Type	Brand	Model	Receiver Type NO.	Preset Type
MEDIA SAT		155	C	GALAXIS	FTA2	159	C
PANASONIC	TU-DSB20			GALAXIS	602CI	160	C
	TU-DSB30			GALAXIS	IOG.1	161	C
AMSTRAD	DRX100	156	C	PHILIPS	TERMINAL TS4	162	C
GRUNDIG	DGS200			SAGEM	ISD2210	163	C
PACE	BSKYB2200			GRUNDIG	DTR2000S	164	C
SONY	VTX750U	157	C			165	C
PHILIPS	DTX6370						
	DVB9500C	158	C				
ITT/NOKIA	DVB9500S						
	DVB9600S						

Installation continued

Common Satellite Receiver channel orders for VIDEO Plus+ system operation

Station name	GUIDE CHANNEL No.	SKY ANALOGUE	SKY DIGITAL	ON DIGITAL
BBC 1	1	X	101	1
BBC 2	2	X	102	2
ITV	3	X	103	3
CHANNEL 4	4	X	104	4
CAHNNEL 5	5	X	105	5
RTE (IRELAND)	6	X	X	X
NETWORK 2 (IRELAND)	7	X	X	X
TV NA GAELTACHTA	8	X	X	X
TV3	9	X	X	X
S4C	11	X	X	X
SKY ONE	101	1	106	26
SKY NEWS	102	2	501	X
SKY MOVIE MAX	103	3	308	24
SKY MOVIES PREMIER	104	4	301	25
SKY SPORT 1	105	6	401	21
NICKELODEON	106	7	604	X
EUROSPORT & BRITISH EUROSPORT	107	30	419	29
ITV2	108	X	X	6
MTV EUROPE	109	14	631	33
CHALLENGE TV	110	X	121	X
THE DISNEY CHANNEL	111	5	115	X
SKY BOX OFFICE 1	111	5	X	X
BBC WORLD SERVICE	112	X	X	X
UK ARENA	113	X	151	X
UK STYLE	114	X	148	38
UK HORIZONS	115	X	544	38
FILMFOUR	116	X	324	41
CARLTON CINEMA & CHAMPIONS ON 28	117	X	X	28
CARLTON WORLD	118	X	X	34
NATIONAL GEOGRAPHIC	119	18	538	X
CARLTON KIDS	120	X	X	X
BBC CHOICE	121	X	160	7
SCIENCE FICTION	122	26	130	X
CHRISTIAN CHANNEL	122	26	X	X
SOAP	122	26	X	X
UK GOLD	123	11	109	32
DISCOVERY	124	9	531	X
EBN	125	8	X	X
TROUBLE	125	8	607	X
CNN	126	31	513	X
RACING	127	20	416	X
WEATHER	127	20	X	X
SKY BOX OFFICE 2	127	20	X	X
PERFORMANCE	128	X	X	X
SKY CINEMA	129	27	315	X
LIVING	130	13	112	X
GRANADA PLUS	131	19	118	30
SKY SCOTTISH	132	21	X	X
UK GOLD 2	132	X	110	31
TV5 EUROPE	133	X	X	X
CHAMPIONS ON 99	134	X	X	X
TNT	135	29	X	X
QVC	136	12	650	X
ANIMAL PLANET	137	X	550	X
BBC KNOWLEDGE	138	X	553	X

Station name	GUIDE CHANNEL No.	SKY ANALOGUE	SKY DIGITAL	ON DIGITAL
CMT	138	24	X	X
UK PLAY	139	X	644	X
SKY SPORT 2	140	16	402	22
FOX KIDS	141	18	610	X
COMPUTER CHANNEL	142	22	X	X
GRDA BREEZE	142	X	136	31
GRANADA GOOD LIFE	142	22	X	X
SKY BOX OFFICE 4	142	22	X	X
LIVE TV	143	X	X	X
CNBC	144	X	510	X
VIDEO HITS ONE/ VH-1 (ENGLISH)	145	15	635	X
SELECT TV	146	X	X	X
ZEE TV	147	X	676	X
SKY SPORT 3	148	17	403	23
TV SHOP	148	17	X	X
CARTOON NETWORK	149	29	601	27
SKY MAX 2	150	X	309	X
SKY MAX 3	151	X	310	X
SKY MAX 4	152	X	311	X
SKY PREMIER 2	153	X	302	X
SKY PREMIER 3	154	X	303	X
SKY PREMIER 4	155	X	304	X
SKY CINEMA 2	156	X	316	X
S4C DIGITAL	157	X	184	X
SKY PREMIER WIDESCREEN	158	X	305	X
S2	159	X	X	X
TVYOU	160	X	X	X
SKY MAX 5	161	X	312	X
TCM (Turner Classic Movies)	162	X	327	X
24hr TNT channel	163	26	541	X
HISTORY	163	26	541	X
FANTASY CHANNEL	164	13	X	X
DISCOVERY HOME	165	9	133	X
AND LEISURE	166	8	124	X
BRAVO	167	27	145	X
SKY TRAVEL	167	27	145	X
GRANADA MEN	168	19	139	31
AND MOTORS	169	X	547	X
TV	170	X	974	X
ADULT CHANNEL	170	X	974	X
PLAYBOY TV	171	17	974	X
PARAMOUNT COMEDY	173	7	127	X
CHANNEL	173	7	127	X
SKY SPORTS EXTRA	174	X	904	X
SKY SPORTS NEWS	175	X	413	X

Note:
It is important that you check that your VIDEO Plus+ system Guide Channel order stored on the VTR is the same order as your Satellite Receiver otherwise VIDEO Plus+ system programming will not work correctly.

Clearing a Preset Station

If you have stored a TV stations:

- That you do not require
- At the wrong programme position

You can cancel it

Clearing a preset station



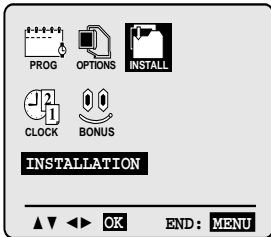
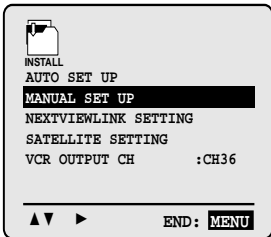
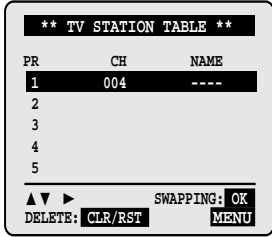
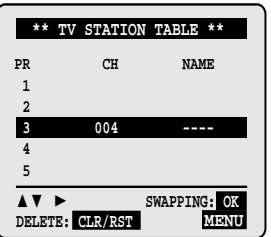
- 1 Press MENU on the remote control.
Result : The programming menu is displayed.
- 2 Press the corresponding ▲, ▼ or ◀, ▶ button to select the **INSTALLATION** option.
- 3 Press the OK button to select this option.
Result : The **INSTALLATION** menu is displayed.
- 4 Press the ▲ or ▼ button to select **MANUAL SET UP** option.
- 5 Press the ▶ button to select this option.
Result : The **TV STATION TABLE** menu is displayed.
- 6 Press the corresponding ▲ or ▼ button, until the required preset TV station is selected. (PR)
- 7 Press the CLR/RST button.
- 8 Repeat the same procedure from step 6 onward until all the required stations have been cleared.
- 9 On completion, press MENU three times to exit the menu.

Changing the Preset Station Table

You can rearrange the preset TV stations according to your own preferences programme number assigned to the station.

Changing the preset station table



- Press MENU on the remote control.
Result : The programming menu is displayed.
- Press the corresponding ▲, ▼ or ◀, ▶ button to select the **INSTALLATION** option.

- Press the OK button to select this option.
Result : The **INSTALLATION** menu is displayed.
- Press the ▲ or ▼ button to select **MANUAL SET UP** option. And then press the ▶ button to select this option.
Result : The **TV STATION TABLE** menu is displayed.


- Press the corresponding ▲ or ▼ button, until the required preset TV programme is selected.
Result : The selected station is displayed at the same time on the television screen.
- To change the programme number assigned to station press the OK button on the remote control. (For example, To move a TV station in programme 1 to programme 3)

- Press the ▲ or ▼ button to select required position. And then press OK again to swap the position.
- You can modify this station by repeating the same procedure from step 5 onwards.
- On completion, press the MENU button three times to exit the menu.

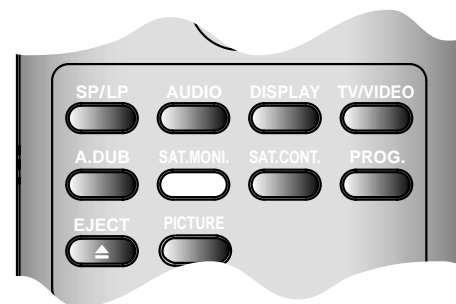
Set top box Monitor Functions

For Set top box receiver with only ONE SCART socket:

If the Set top box receiver has only one Scart output, Connect it to the BLUE input socket on the VTR. Use another Scart lead to connect the AV1 (EURO AV) socket on the VTR to the TV

Satellite monitor functions

If the Set top box receiver has two SCART outputs, one to the VTR and another to the TV, you do not need to use this function.



Note: To view Set top box when video is in standby or (not ECO. MODE) recording a television station:

- Press the SAT.MONI. button on the remote control once to select the AV2 (SATELLITE) IN scart. This will loop the satellite signal through the VTR up to the television.
- If it has not been automatically selected, select the SCART socket on the television. (refer to TV Owner's Manual)
- To cancel press the SAT.MONI. button again.
Note: If you press MENU on the remote control the Set top box Monitor function will be canceled.

If you wish to use the tape counter to display the time remaining on a cassette, you must indicate the type of cassette inserted.

Selecting the cassette type



- 1

Press MENU on the remote control.
Result : The programming menu is displayed.
- 2

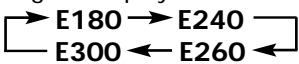
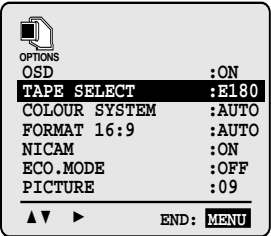
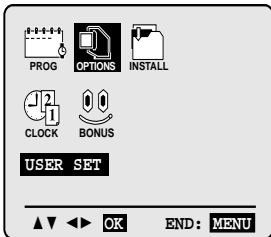
Press the corresponding ▲, ▼ or ◀, ▶ button to select the **USER SET** option.
- 3

Press the OK button to select this option.
Result : The **USER SET** menu is displayed.
- 4

Press the corresponding ▲ or ▼ button, until the **TAPE SELECT** option is selected.
- 5

Press the ◀ or ▶ button as many times as required, until the correct cassette length is displayed.
- 6

Press MENU twice to exit menu



Type	Recording Time (in SP)
E-180	180 mins. or 3 hours
E-240	240 mins. or 4 hours
E-260	260 mins. or
	4 hours and 20 mins.
E-300	300 mins. or 5 hours

You can record a cassette at two different speed:

- ◆ SP (Standard Play)
- ◆ LP (Long Play)

In long Play modes:

- ◆ Each cassette last twice as long
- ◆ The recording is of a slightly lower quality

To record a cassette... Press the SP/LP button on the remote control, until...

In standard play mode **SP** is displayed.

In long Play **LP** is displayed.

Selecting the record speed

continued

NICAM

NICAM programme are divided into 3 types. NICAM Stereo, NICAM Mono and Bilingual (transmission in another language). NICAM programmes are always accompanied by a standard mono sound broadcast and you can select the desired sound. Please refer to page 51.



- 1

Press MENU on the remote control.
Result : The programming menu is displayed.
- 2

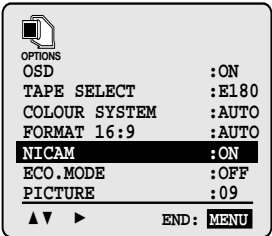
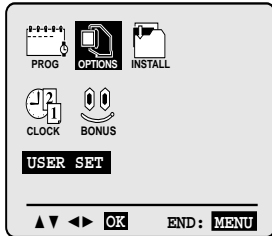
Press the corresponding ▲, ▼ or ◀, ▶ button to select the **USER SET** option.
- 3

Press the OK button to select this option.
Result : The **USER SET** menu is displayed.
- 4

Press the corresponding ▲ or ▼ button, until the **NICAM** option is selected.
- 5

To... Mono
- 6

On completion, press MENU twice to exit the menu.



Press ◀ or ▶, until... **OFF** is displayed.

OFF: Only set at this position to record the standard mono sound during a NICAM broadcast if the stereo sound is distorted due to inferior reception conditions.

ON is displayed.

ON: Normally set at this position.

NICAM mode

NexTVViewLink Function of this VTR

If your TV has "Easy Link/nexTVViewLink/AV-Link" function, the VTR can automatically store stations memorized in the TV in the same channel position as those of the TV.

NexTVViewLink Function of this VTR

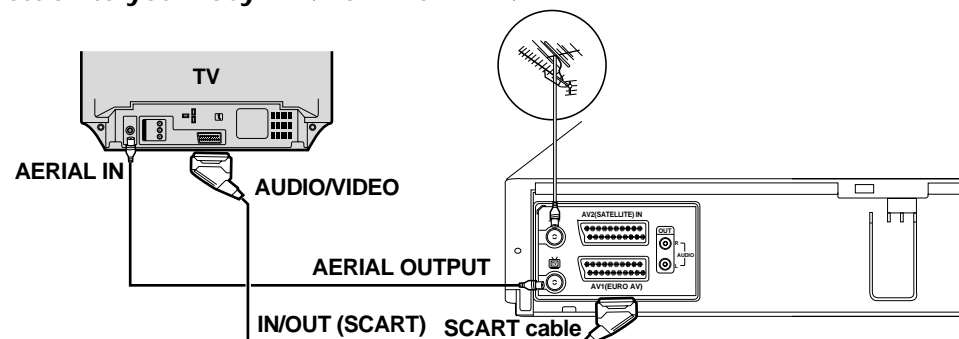
Using a SCART cable (21 pins), a mutual control is available with the TV, VCR, SAT receiver, etc.

- The VTR automatically stores all your current TV stations in the VTR in the same position order as the TV channels. ("TV CH DOWNLOAD").
- Even if the TV is in standby mode, the TV automatically turns on and displays the video picture when you start playback on the VTR.
- The VTR automatically selects the same picture as you are watching on the TV, and record it. ("TV PICTURE").
- The VTR takes in the data and turns to timer standby mode, after a programme data reserved is transferred to the VTR by a TV using such as a EPG (Electronic Programme Guide). In this case, the TV's and the VTR's channel position must be set to the same TV station. The position could be stored from 1 to 80. Also the VTR's clock must be set.

Connection

Connect your EasyLink/nexTVViewLink/AV-Link TV to the AV1 (EURO AV) socket on the rear of the VTR using the SCART cable. Refer to your TV's manual additionally.

- Connection to your EasyLink/nexTVViewLink/AV-Link TV

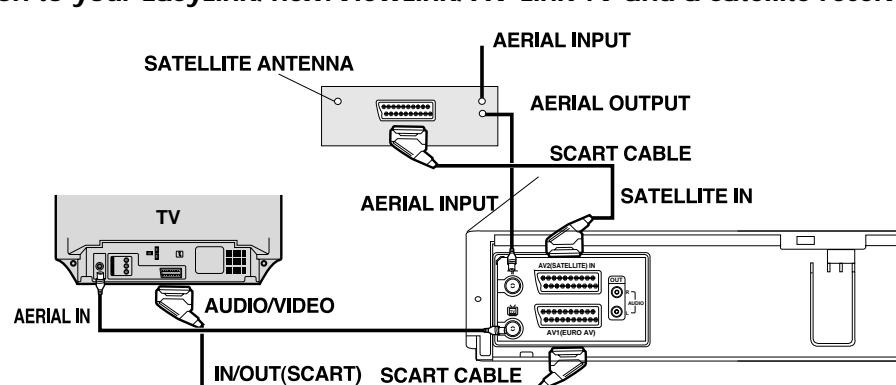


When connecting another VTR supporting EasyLink/nexTVViewLink/AV-Link function

The "nexTVViewLink system can connect 2 VTRs (VTR1 and VTR2) at the same time. This VTR is adjusted to "VTR1", so it should be connected to VTR2.



- Connection to your EasyLink/nexTVViewLink/AV-Link TV and a satellite receiver



NexTVViewLink Function of this VTR continued

Preparation :

- Turn on the TV
- Select the video channel or the video input mode on the TV

TV Program Download

Note :

- The available position numbers on the VTR are 1 to 80.
- When the TV's channel position is readjusted, the VTR automatically makes "TV CH DOWNLOAD"

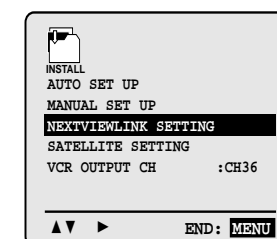


- 1 Press MENU on the remote control.
Result : The programming menu is displayed.

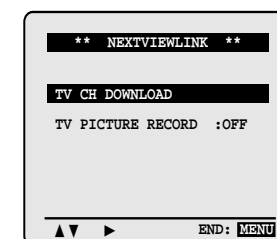
- 2 Press the corresponding ▲, ▼ or ◀, ▶ button to select the **INSTALLATION** option. And then Press the OK button to select this option.
Result : The **INSTALLATION** menu is displayed.



- 3 Press the ▲ or ▼ button to select **NEXTVIEWLINK SETTING** option. And then press the ▶ button to select this option.
Result : the **NEXTVIEWLINK SETTING** menu is displayed.

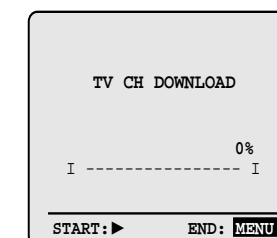


- 4 Press the ▲ or ▼ button, until the **TV CH DOWNLOAD** option is selected. And then press the ▶ button to select this option.



- 5 Press the ▶ button to start **TV CH DOWNLOAD** function.

- 6 When the downloading finished, then "**TV CH DOWNLOAD FINISHED**" is displayed.



- 7 Press the MENU button to exit.

NexTViewLink Function of this VTR continued

Preparation : turn on the TV

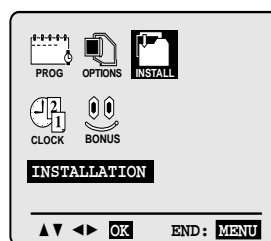
TV Picture Record Setting

Note : If this option is in ON mode, you press two REC buttons on your VTR remote control, your VTR records the same picture as you are watching on the TV

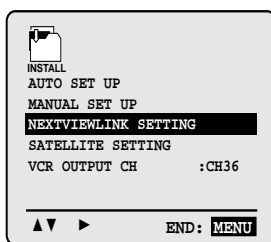


- 1 Press MENU on the remote control.
Result : The programming menu is displayed.

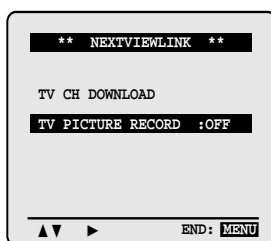
- 2 Press the corresponding ▲, ▼ or ◀, ▶ button to select the **INSTALLATION** option. And then Press the OK button to select this option.
Result : The **INSTALLATION** menu is displayed.



- 3 Press the ▲ or ▼ button to select **NEXTVIEWLINK SETTING** option. And then press the ▶ button to select this option.
Result : the **NEXTVIEWLINK SETTING** menu is displayed.



- 4 Press the ▲ or ▼ button, until the **TV PICTURE RECORD** option is selected.



- 5 **To...**
Record the same picture as you are watching on the TV when you press two REC buttons on your VTR remote control.

Press ◀ or ▶ until...
ON is displayed.

Record the selected picture on your VTR when you press two REC buttons on your VTR remote control.

OFF is displayed.

- 6 Press the MENU button three times to exit.

NexTViewLink Function of this VTR continued

Direct Record Procedure

Note :
• This recording is not available on the timer programme recordings.

- 1 Load a cassette with the safety tab attached.
- 2 Press the SP/LP button to select the recording tape speed.
- 3 Press two REC button to start recording.
Result : The VTR automatically select the same picture as you are watching on the TV and start recording. Depending on the picture sources, the recording switches the method. see next page.
- 4 To stop a recording, press STOP (■) once.



66RECORDING

NexTVViewLink Function of this VTR continued

Before contacting the Toshiba after sales service, perform the following simple checks.

TV Picture Record Setting

Picture	The VTR records:	During recording, if you change the channel or the input mode on the TV, the recording will be :	
Channel selected on the TV If you performed "TV CH DOWNLOAD" (TV stations stored on the VTR and the TV in the same position order).	VTR channel of the same number as the TV	Ext. TV channel 1	Continued.
If you did not perform "TV CH DOWNLOAD" (TV station not stored on the VTR and the TV in the same position order).	AV1 (output of the TV)		Stopped.
Pictures of external equipment connected to the TV.	AV1 (output of the TV)		Stopped.
Channel selected on the VTR.	VTR channel	Ex. VTR channel 1	Continued

66RECORDING

Protecting a Recorded Cassette

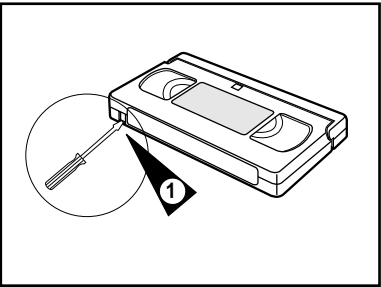
Video cassettes have a safety tab to prevent accidental erasure. When this tab has been removed, you cannot record on the tape.

Protecting a Recorded Cassette



Note:
♦ If the cassette is ejected when you start recording, check that the safety tab is intact or the opening is covered with adhesive tape.
♦ If you reach the end of the tape while recording, the cassette rewinds automatically.

- 1 If you wish to protect a cassette, break off the tab using a small screwdriver.
- 2 To re-record over a protected cassette (safety tab broken), cover the hole with adhesive tape.



Recording a Programme Immediately

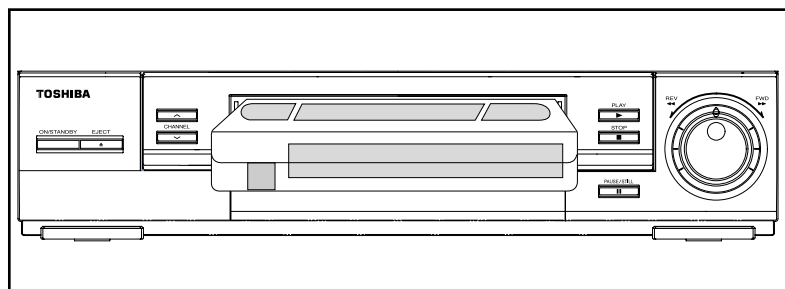
Note:
Before recording a programme, you must have preset the corresponding station (unless you are recording via an external video source). If you have not done so, refer to pages 16 and 17.

- 1 Switch on the television.
- 2 To monitor the programme being recorded, select the television channel reserved for use with your VTR (or the AV input if used).
- 3 Insert the cassette on which the programme is to be recorded, with the window visible and the safety tab intact or the opening covered with adhesive tape.
Result: The VTR is switched on automatically
- 4 Select:
♦ The station to be recorded using the CH/TRK (▲ or ▼) buttons
or
♦ The AV1, AV2 or AUX source using the I.SELECT buttons for a satellite tuner or external video source
Result: The station number is displayed and the programme can be seen on the television.
- 5 Select the recording speed (SP/LP) by pressing the SP/LP button as many times as required (see page 28).
- 6 Press two REC buttons on the remote control or REC button on the front of the VTR.
Result: The record indicator appears on the television and VTR display. An index is recorded on the tape (see page 54).
- 7 To stop recording, press STOP (■) once.

Recording a Programme with Automatic Stop

Recording a Programme with Automatic Stop

This function enables you to record up to nine hours of programmes. (LP)
Your VTR stops automatically after the requested length of time.



Note:

If the end of the tape is reached while recording:
♦ The recording stops
♦ The VTR automatically turns off

- 1 Switch on the television.
- 2 To monitor the programme being recorded, select the television channel reserved for use with your VTR (or the AV input if used)
- 3 Insert the cassette on which the programme is to be recorded, with the window visible and the safety tab intact or the opening covered with adhesive tape.
Result : The VTR is switched on automatically.
- 4 Select:
♦ The station to be recorded using the CH/TRK (▲ or ▼) buttons
or
♦ The AV1, AV2 or AUX source using the I.SELECT buttons for a satellite tuner or external video source
Result : The station number is displayed and the programme can be seen on the television.
- 5 Select the recording speed (SP/LP) by pressing the SP/LP button as many times as required (see page 28).
- 6 Press two REC buttons on the remote control or REC button on the front of the VTR.
Result : The record indicator appears on the television screen and the VTR display. An index is recorded on the tape (see page 54).
- 7 Press two REC buttons several times to increase the recording time in
♦ 30-minute intervals up to four hours
♦ 1-hour intervals up to nine hours (LP)
Result : The length is displayed on the television displays. The selected programme is recorded for the length of time requested. At the end of that time, the VTR stops recording automatically.
- 8 If you wish to cancel the recording before the end, press ON/STANDBY.

LENGTH 2:30
SET LENGTH :
PRESS REC ●

VIDEOplus+ EXTEND

To prevent delays or over-runs the VTR has a function called VIDEOPLUS EXTEND allowing you to extend the recording time by up to 60 minute.

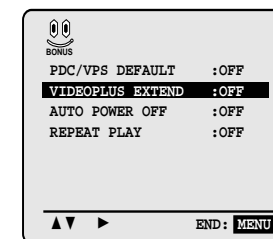
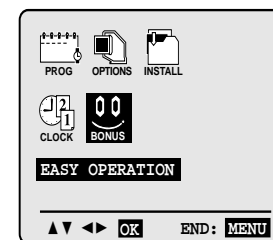
VIDEOplus+ EXTEND



Note:

Only use if PDC is not available or set to OFF

- 1 Press MENU on the remote control.
- 2 Press the corresponding ▲, ▼ or ◀, ▶ button to select the **EASY OPERATION** option.
- 3 Press the OK button to select this option .
Result : The **EASY OPERATION** menu is displayed.
- 4 Press the corresponding ▲ or ▼ button , until the **VIDEOPLUS EXTEND** option is selected
- 5 Press the ◀ or ▶ button to set the VIDEOPLUS EXTEND time by increments of 10 minutes.
- 6 To turn off, press ◀ or ▶ button repeatedly until **OFF** shows.
- 7 Press the MENU button two times to exit.

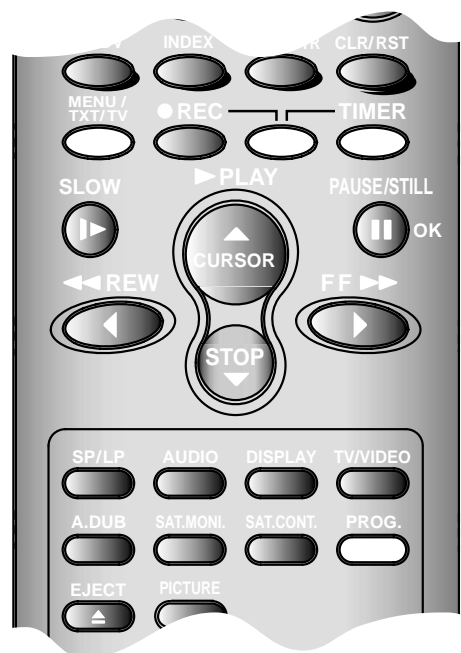


66 RECORDING VIDEOplus System Recording

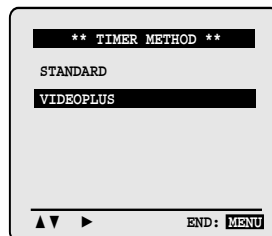
Before presetting your VTR :

- Switch on both the television and your VTR
- Check that the date and time are correct
- Insert the cassette on which the programme is to be recorded (safety tab intact). Up to six programmes can be preset.

VIDEOplus System Recording



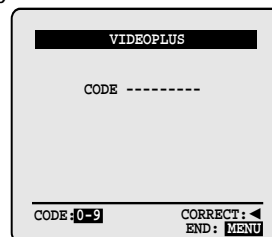
- 1 Press the PROG. button.
Result : The **TIMER METHOD** is displayed.
Note : STANDARD Timer Method is used for the standard Timer Programming such as TIMER PROGRAMMING Feature, refer to page 40 for this function.



- 2 Press the corresponding ▲ or ▼ button to select the **VIDEOPLUS** option and press the ► button to select this option.

Result : A message is displayed to allow you to enter the VIDEO Plus+ code.

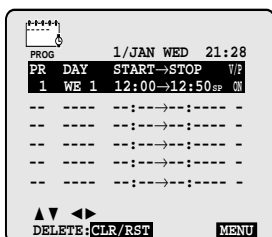
Note : If all six programmes have been set, the message **TIMER IS FULL** is displayed. Refer to page 42 if you wish to cancel a preset recording.



- 3 Press the numeric buttons to enter the code opposite the programme that you wish to record in your television magazine.

Note : If you wish to correct the VIDEO Plus+ code that you are entering.
♦ Press the ◀ button until the digit to be corrected is cleared.
♦ Enter the correct digit

- 4 Press the MENU or PROG. button
Note : When using the VIDEO Plus+ function for the first time with stored station, the programme number flashes. This one time, you must enter the station number manually by pressing the ▲ or ▼ button. Refer to the following page if :
♦ The programme number or times flash
♦ You wish to modify the programme.



- 5 If the programme and times are correct, press the MENU button.

- 6 Press the two TIMER buttons to activate the timer. If you wish to turn the timer off any reason simply press the two TIMER buttons again.
Refer to page 42 if you wish to :
♦ Check that your VTR has been programmed correctly
♦ Cancel a preset recording

Note: The numbers next to each TV programme listing are VIDEO Plus+ code numbers, which allow you to programme your videorecorder instantly with the remote control. Tap in the VIDEO Plus+ for the programme you wish to record.

VIDEO Plus+ is a trademark of Gemstar Development Corporation. The VIDEO Plus+ system is manufactured under licence from Gemstar Development Corporation.

66 RECORDING VIDEOplus System Recording

continued

If you wish to correct the programme displayed or modify certain elements, such as the recording speed, you can do so before you press MENU a second time to confirm.

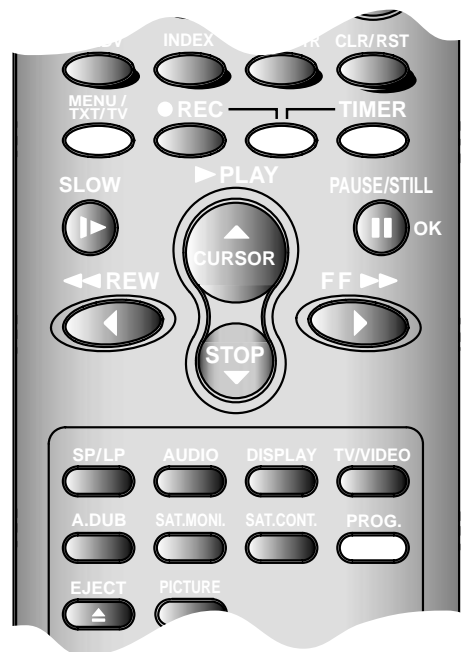
Modifying VIDEOplus Programming

If you wish to...	Then...
Select an input source other than the tuner (AV1, AV2 or AUX)	<ul style="list-style-type: none">♦ Press the ◀ or ▶ button, until the PR selection flashes.♦ Press I.SELECT button one or more times to change the input source selection. <p><u>Result</u> : The programme number is replaced by :</p> <ul style="list-style-type: none">• A1, A2 or AU for a satellite tuner or external video input (used by another VTR for example)• S - - - for the satellite input (used by a satellite receiver for example) see page 22 <p><u>Note</u> : The input source must be selected before changing any other value.</p>
Record a programme every day (Monday to Sunday) at the same time	<ul style="list-style-type: none">♦ Press the ◀ or ▶ button, until the DAY selection flashes.♦ Press the ▲ or ▼ button, until the DLY (Daily) value is displayed.
Record a programme every week on the same day and at the same time	<ul style="list-style-type: none">♦ Press the ◀ or ▶ button, until the DAY selection flashes.♦ Press the ▲ or ▼ button, until the W- (Week) value is displayed. followed by the required day. <p><u>Example</u> : W - SA (Weekly Saturday)</p>
Extend the recording time	<ul style="list-style-type: none">♦ Press the ◀ or ▶ button, until the STOP selection flashes.♦ Press the ▲ or ▼ button to increase or decrease the stop time.
Select the recording speed	<ul style="list-style-type: none">♦ Press the ◀ or ▶ button, recording speed selection flashes.♦ Press the ▲ or ▼ button until the correct indication is displayed :<ul style="list-style-type: none">• AUTO (Auto Tape Speed Select) : see page 40• SP (Standard Play)• LP (Long Play)
Select VPS/PDC	<ul style="list-style-type: none">♦ Press the ◀ or ▶ button, until the V/P selection flashes.♦ Press the ▲ or ▼ button, until the ON or "-" indication is displayed. <p><u>Note</u> : Do not select VPS/PDC unless you are sure the programme you wish to record is broadcast with VPS/PDC ON (by selecting "ON" in the right - hand column on the screen), then you must set up the start time EXACTLY according to the published TV schedule. Otherwise the timer recording won't take place.</p>

Using the TIMER Programming Feature

The TIMER Programming feature allows you to preset the VTR to record a programme up to one month before that programme is to be broadcast. Up to six programmes can be preset.

Using the TIMER Programming Feature



- 1 Insert the cassette. Press the PROG button.
Press the ▲ or ▼ button to select the STANDARD option and then press the ► button or,
Press Menu on the remote control.
Result : The programming menu is displayed.
Press the OK button to select TIMER PROGRAMMING option.
Result : The **TIMER PROGRAMMING** menu is displayed.
- 2 Press ► to select the input source.
- 3 Select the required station by pressing the ▲ or ▼ button or I.SELECT to select the AV1, AV2 or AUX input sources.
- 4 Press ► to select the recording day.
- 5 Select the required day by pressing the ▲ or ▼ button.
- 6 Press ► to select the recording start time.
- 7 Select the required hour value by pressing the ▲ or ▼ button.
- 8 Press ► to select the minutes.
- 9 Select the required minute value by pressing the ▲ or ▼ button.
- 10 Press ► to select the recording end time.
- 11 Select the required recording end time by pressing the ▲ or ▼ button, following the same procedure as when selecting the recording start time.
- 12 Press ► to select the recording speed (AUTO/SP/LP).
- 13 Press the ▲ or ▼ button to switch between the **AUTO**, **SP** (standard Play), **LP** (Long Play) recording speeds.
- 14 Press ► to select the VPS or PDC (V/P) recording mode.
- 15 Press the ▲ or ▼ button to toggle between the VPS or PDC mode (marked **ON**) and the non-VPS/PDC mode (marked -).
- 16 To set another timer programme, press ► button to go to next line and follow steps 2 to 15.
- 17 When you have finished, press the MENU button.
- 18 Press the two TIMER button to activate the timer.
Note : If you wish to turn the timer off any reason simply press the two TIMER button again.
Result : Before starting recording, the VTR compares the timer duration with the remaining time on the cassette.

Note: Auto Tape Speed Select

The VTR's Auto Tape Speed Select function compares the duration of the timer recording to the actual recording time remaining on the tape loaded. If there is insufficient tape to complete a timer recording in AUTO mode, the VTR automatically switches to LP mode to record the whole programme.
E.g. If there is a one hour Timer recording in AUTO mode to be started, and only 40 minutes tape remaining, the VTR will record in SP for 20 minutes and switch to complete the remaining 40 minutes in LP mode.

Setting a Satellite Channel Recording

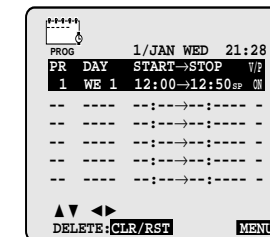
When satellite input has been set, you can program a timer recording to a satellite channel by using the VIDEO PLUS+ and the TIMER programming function.

Setting a Satellite Channel Recording

Before presetting a satellite channel recording, check the satellite tuning and setting (see pages 20 and 21)



- 1 Insert the cassette and press the MENU button. And then press the OK button to select **TIMER PROGRAMMING** for satellite channel.
- 2 Press ► to select the satellite input source.
- 3 Select the satellite input by pressing the SAT.CONT. button or I.SELECT button.
Result : If the satellite input has been set correctly, the PR displayed "S---".
- 4 Press the numeric button to be selected channel.
SAT 9: ① ① ①
SAT 27: ① ② ⑦
You need to press the "0" numeric button to select one or two digit satellite channel.
- 5 Refer to using the TIMER programming feature how to select a day, start & stop time, speed (see page 40).



Note:

- ◆ VPS/PDC programming is not possible in conjunction with satellite programmed recording.
- ◆ In the case of some satellite receivers, the power remains off for several seconds when timer recording commences.
- ◆ With some satellite receivers, the first several seconds will not be recorded when the timer recording function is used.
- ◆ With some satellite receivers, the power goes off if the recording is stopped while timer recording is still underway.

Checking a Preset Recording

You can check your preset recordings:

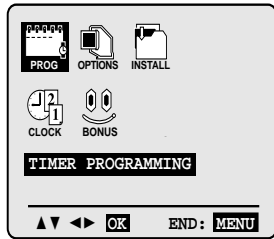
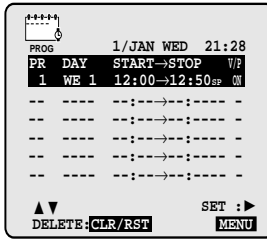
- When you have finished presetting the VTR
- If you have forgotten which programmes will be recorded
- Before the VTR enters the timer standby mode

Checking a Preset Recording

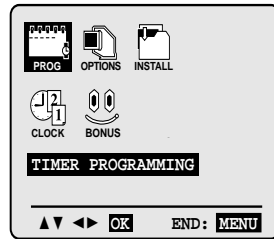
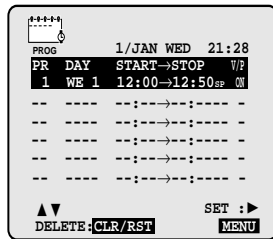


You can cancel any programmes that are :

- ♦ Incorrect
- ♦ No longer required

- 1 Press MENU on the remote control.
Result : The programming menu is displayed.
 - 2 Press the OK button to select this option .
Result : The **TIMER PROGRAMMING** menu is displayed.
- 

- 3 Press the ▲ or ▼ button to select the required programme.
 - 4 Press the ◀ or ▶ button to select and change any values as required. For more details, refer to the previous page.
 - 5 On completion, press. MENU.

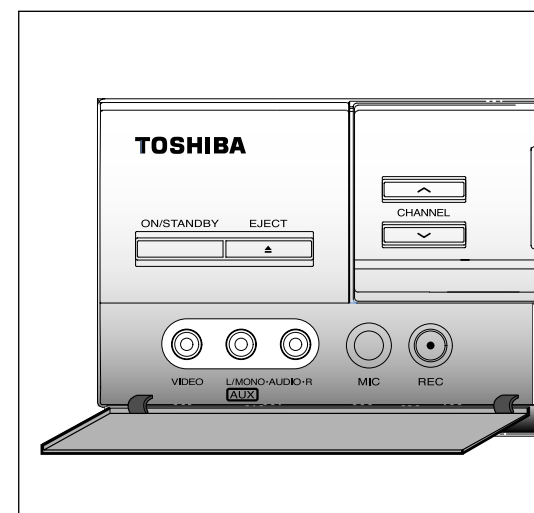
Cancelling a Preset Recording

- 1 Press MENU on the remote control.
Result : The programming menu is displayed.
 - 2 Press the OK button to select this option .
Result : The **TIMER PROGRAMMING** menu is displayed.
- 

- 3 Select the programme to be cancelled by pressing the ▲ or ▼ button.
 - 4 Press the CLR/RST button to cancel the selected programme.
Result : All the recording information is deleted and the broadcast will not be recorded.
 - 5 On completion, press. MENU.

Advance Recording Feature

You can connect other audio/video equipment to your VTR using audio/video cables if the appropriate outputs are available on the equipment chosen.

Connecting an RCA Audio/Video Input Cable



- Examples :
- ♦ You wish to copy a video cassette with the help of a second VTR (see page 44).
 - ♦ You wish to play back and/or copy pictures taken with camcorder (see page 44).
- Note : ♦ Make sure that both the television and the VTR are switched off before connecting the cables.

- 1 Connect one end of the RCA audio/video cable into the VIDEO socket on the front of the VTR.
- 2 Plug the other end of audio/video cable into the appropriate output connector on the other system (VTR or camcorder).
- 3 Connect one end of the RCA audio cable into the AUDIO sockets on the front of the VTR.
Note : Take care to respect the colour coding of the left and right channel.
- 4 Plug the other end of the audio cable into the appropriate output connectors on the other system (VTR, camcorder or Hi-Fi sound system).

Advance Recording Feature continued

This function allows you to start a new recording at a specific position on the cassette while maintaining a very smooth scene change.

Using the Assemble Edit Function



Note :

- ♦ A smooth edited scene will only be achieved if there are of the same video system.
- ♦ Some noise can be expected at the end of the edit recording before the original recording resume.

- 1 Insert the cassette to be edited in your VTR.
- 2 Press the ► PLAY or cursor (▲) button to start playback.
- 3 When you reach the position from which you wish to start the new recording , press the PAUSE/STILL (||) button.
- 4 Press the F.ADV button as often as necessary to advance frame by frame, until the exact recording position is located.
- 5 While the VTR is in still mode, press the two REC buttons to activate the assemble Edit function.
- 6 Select the source from which you wish to record by pressing:
 - ♦ The CH/TRK (▲ or ▼) button for television channels.
 - ♦ The I.SELECT button for the AV1, AV2 or AUX input sources.
- 7 Press the PAUSE/STILL (||) button to start recording.
- 8 When you have finished recording, press STOP (■).

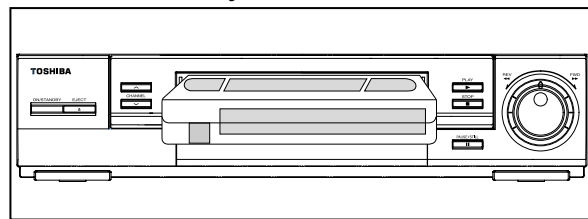
Recording from Another VTR or Camcorder



You can copy a cassette to your VTR from another video source, such as another VTR or a camcorder.

Note : It is an infringement of copyright laws to copy prerecorded cassettes or to re-record them any from without the permission of the owners of the corresponding copyright.

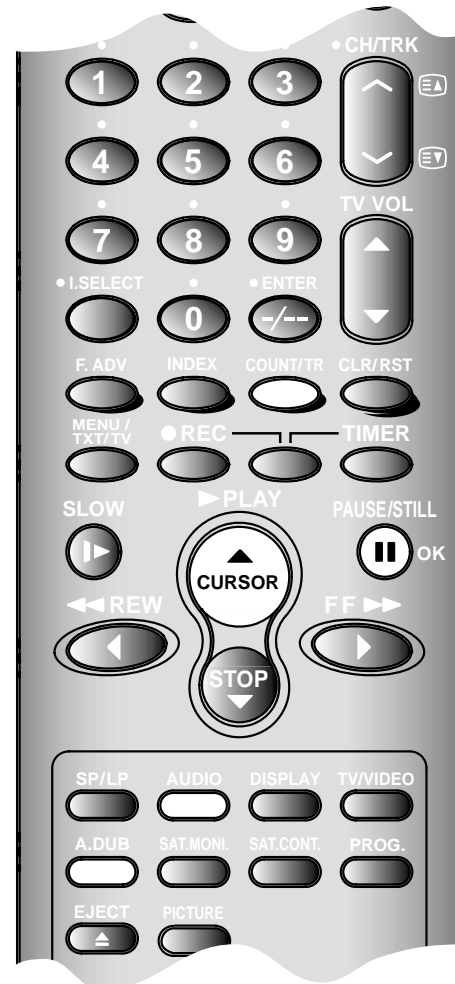
- 1 Connect the VTR, from which the cassette is to be copied, to the appropriate SCART audio and video input connectors on the rear of your VTR.
- 2 Insert a blank cassette in your VTR.
- 3 Insert the pre-recorded cassette in the other video source (VTR or camcorder).
- 4 Press the I.SELECT button to select the appropriate input on your VTR :
 - ♦ AV1 or AV2 for the SCART input.
 - ♦ AUX for the RCA input
- 5 Start playing back the cassette to be copied.
- 6 Press the two REC buttons to start recording on your VTR.
- 7 When you have finished recording, press STOP (■) on both VTRs.



Advance Recording Feature continued

With the Audio Dubbing function, you erase the previously recorded sound and replace it with a new soundtrack from : a CD player, a cassette player, a microphone connected to a sound system.

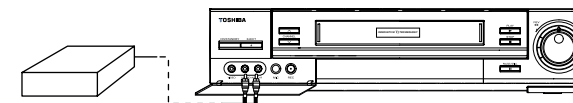
Audio Dubbing a Pre-recorded Cassette



Restriction :

Audio dubbing is applicable only to the longitudinal audio track (normal audio).

- 1 Connect suitable equipment e.g. cassette recorder to the AUX on the front of the VTR.



Note : If recording from AUX remember to disconnect any microphones.

- 2 Insert the tape to be OVER-DUBBED (the tape with the new audio track to be recorder onto).
- 3 Find the scene that you want to over-dub and press PAUSE/STILL on the remote control.
- 4 Press the A.DUB (audio dub) button on the remote control. (The screen may flicker, this is normal).
- 5 Press the PAUSE/STILL button again to start both the playback and the Audio dub record.
- 6 Play the sound from the external equipment.
- 7 When listening to the tape, use the AUDIO button to select the required option.

Audio Dubbing using microphone

- 1 Plug the microphone into the MIC socket on the front of the VTR.
- 2 Insert the tape to be OVER-DUBBED (the tape with the new audio track to be recorder onto).
- 3 Find the scene that you want to over-dub and press PAUSE/STILL on the remote control.
- 4 Press the A.DUB (audio dub) button on the remote control. (The screen may flicker, this is normal).
- 5 Press the PAUSE/STILL button again to start both the playback and the Audio dub record.
- 6 Speak into the microphone to add your commentary etc.

See page 51 for the selection soundtracks.

Advance Recording Feature continued

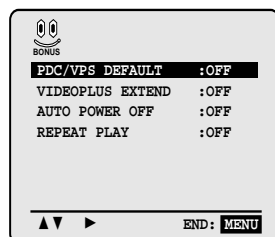
VPS/PDC Default



Note : VPS is the system used in main land Europe and PDC is used in UK

Programme VPS/PDC is a system of telling the VTR when a programme actually starts. Typically, when you want to record a programme you will tell the VTR to start recording, probably, five minutes before the advertised starting time of the programme and to finish ten minutes or so after the programme is due to finish. So even if the programme starts early or finishes late you will normally still get to see what you wanted to record. However when live programmes over-run or the day's television schedule is changed from that advertised, you may miss the desired programme which may have been delayed or even cancelled and the VTR will record the programme even if it is two or more, hours late. With VPS/PDC, you enter the exact start time and the VTR will wait until the signal is sent to confirm the programme is starting and the VTR will record the programme even if it is two or more hour late.

- 1 Press MENU on the remote control.
Result : The programming menu is displayed.
- 2 Press the corresponding ▲, ▼ or ◀, ▶ button to select the **EASY OPERATION** option.
- 3 Press OK button to select this option.
Result : The **EASY OPERATION** menu is displayed.
- 4 Press the corresponding ▲ or ▼ button until the **PDC/VPS DEFAULT** option is selected.

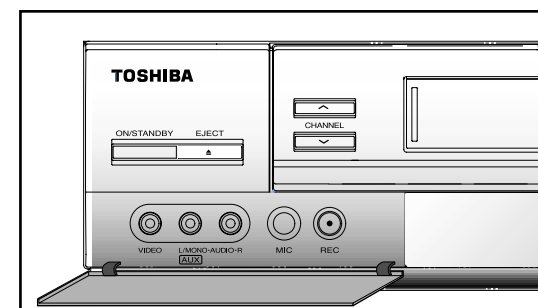
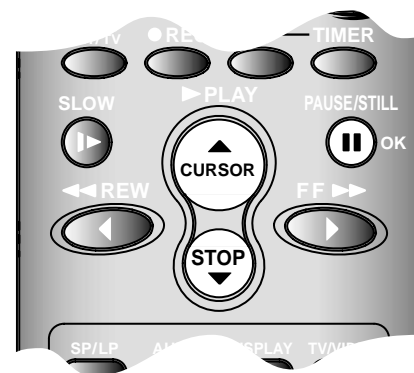


- 5 Press ▶ button to select **ON** in **PDC/VPS DEFAULT** option.
- 6 On completion, press MENU twice to exit the menu.

Playing back

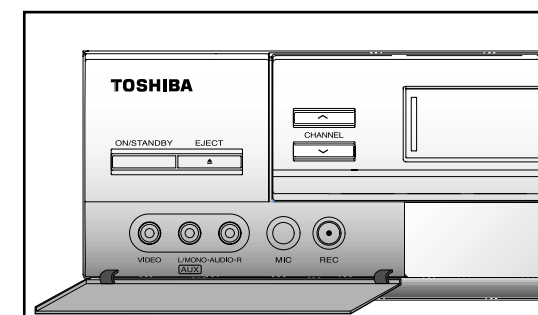
This function allows you to play back any pre-recorded cassette.

Playing a Cassette



- 1 Switch on both the television and your VTR.
- 2 Insert the video cassette to be played. If the safety tab on the cassette is intact, press ▶ PLAY or cursor (▲). Otherwise, the cassette is played automatically.
Note : When a cassette is loaded, the tape position is optimized automatically to reduce disturbance (Digital Auto Tracking). When playing a cassette, if the end of the tape is reached, the cassette is rewound automatically. NTSC tapes can be played back but cannot be recorded with this VTR.
- 3 To.. Stop the playback
Eject the cassette
Then pres...
■ (STOP).
▲ (EJECT).

Adjusting Picture Alignment Manually



The Picture Alignment feature allows you to adjust the alignment manually to obtain the best possible picture.

When noise bars or streaks appear during playback, adjust alignment manually by pressing the CH/TRK (▲ or ▼) buttons until the picture is clear and stable.

Result : The tracking bar appears.
The image is adjusted.
The tracking bar disappears when you release the button.

As each VTR is different, slight adjustments need to be made in the way the tape is read. This is called 'Tracking'. When playback starts the video recorder automatically adjusts the Tracking to obtain the best possible picture and sound; Digital Auto Tracking. The "AUTO" indicator will flash while this adjustment takes place and the playback picture and sound may be distorted. The VTR will automatically adjust the Tracking as best it can. If you playback rented tapes or tapes recorded on other machines, you may occasionally find that the Digital Auto Tracking is not able to improve the picture sufficiently. In these instances you will need to adjust the Tracking manually.

With a tape in and playing, hold down either the CH/TRK (▲ or ▼) button on the remote control until the best possible picture and sound is obtained

If the tape is old or worm, it may be impossible to improve the picture performance. If you press the PAUSE/STILL button the image may shimmer. This can also be reduced by adjusting the Tracking.

Playing back continued

The picture control feature allows you to adjust the sharpness of the image manually, according to your own preferences.

Picture Control



- 1

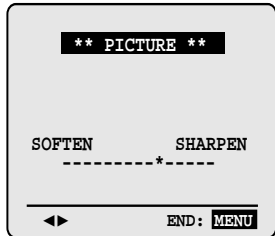
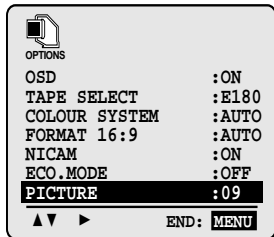
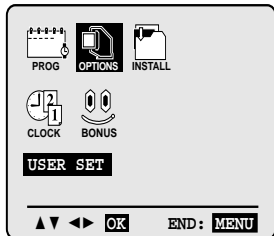
During playback, press the MENU button on the remote control.
Result : The MAIN menu is displayed.
- 2

Press the corresponding ▲, ▼ or ◀, ▶ buttons to select the **USER SET** option.
- 3

Press OK button to select this option.
Result : The **USER SET** menu is displayed.
- 4

Press the corresponding ▲ or ▼ buttons until the **PICTURE** option is selected.
- 5

Press ◀ or ▶ button, until the picture is displayed according to your preference.



Note : The Picture control feature allows you to adjust the sharpness of the image manually by pressing PICTURE button on the Remote Control.

Playing back continued

Your VTR can automatically read a 16:9 signal from the AV2 input or a prerecorded 16:9 tape. It can broadcast a 16:9 signal through a 21 pin scart cable.

Format 16:9 (Wide Screen)



- 1

Press MENU on the remote control.
Result : The programming menu is displayed.
- 2

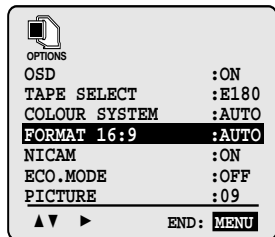
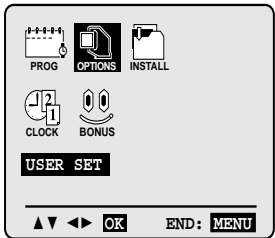
Press the corresponding ▲, ▼ or ◀, ▶ button to select the **USER SET** option.
- 3

Press OK button to select this option.
Result : The **USER SET** menu is displayed.
- 4

Press the corresponding ▲ or ▼ button until the **FORMAT 16:9** option is selected.
- 5

Press ▶ button to select **AUTO** → **ON** → **OFF**.
- 6

On completion, press MENU twice to exit the menu.



AUTO	Set when you used a wide TV. The VTR detects wide TV Programmes and normal TV programmes Automatically when playing back and recording.
ON	The VTR always plays back and records in the mode compatible with 16:9 wide screen. Set if the VTR cannot detect wide TV programmes with "AUTO" set.
OFF	Set if you do not use a wide TV.

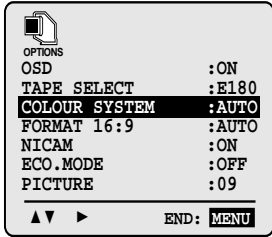
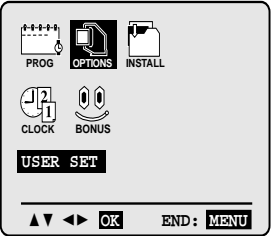
Selecting the Colour Mode

Before recording or playing back a cassette, you can select the required system standard. Otherwise, the system automatically select the reception standard when you select AUTO.

Selecting the Colour Mode



- 1 Press MENU on the remote control.
Result : The programming menu is displayed.
- 2 Press the corresponding ▲, ▼ or ◀, ▶ button to select the **USER SET** option.
- 3 Press OK button to select this option.
Result : The **USER SET** menu is displayed.
- 4 Press the corresponding ▲ or ▼ button until the **COLOUR SYSTEM** option is selected.
- 5 Press ▶ button to select **AUTO → PAL → B/W**
- 6 On completion, press MENU twice to exit the menu.



AUTO	When playing back a cassette, the system standard is automatically selected by the VTR.
B/W	Black and White

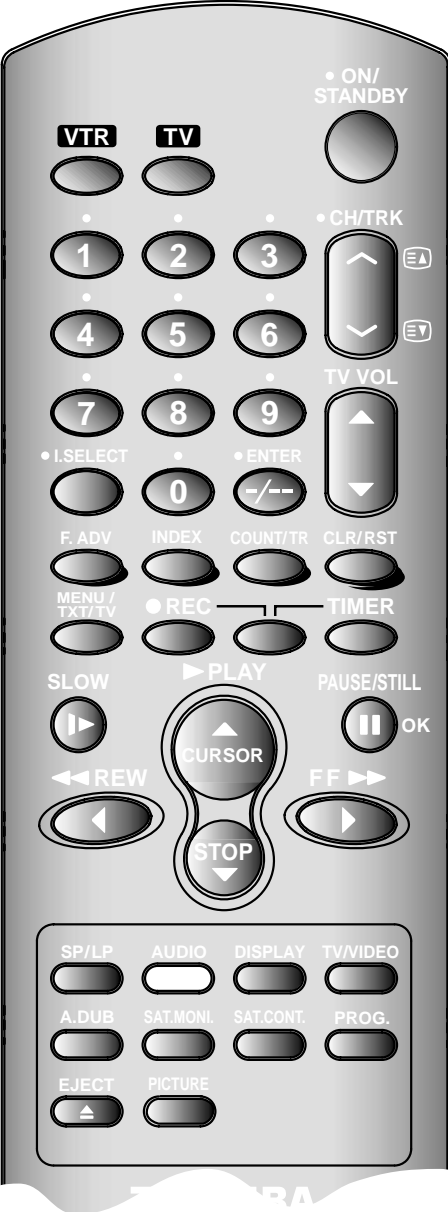
Note:

- ♦ When playing back a cassette, the colour system is automatically selected by the VTR even though you had already selected the colour system manually.
- ♦ When you playback an NTSC-recorded tape on this VTR make a setting on the colour system according to your TV. If your TV is a PAL system only TV, set NTPB. If your TV is Multi system TV (NTSC 4.43 compatible), set NT 4.43 and you can record NT 4.43.

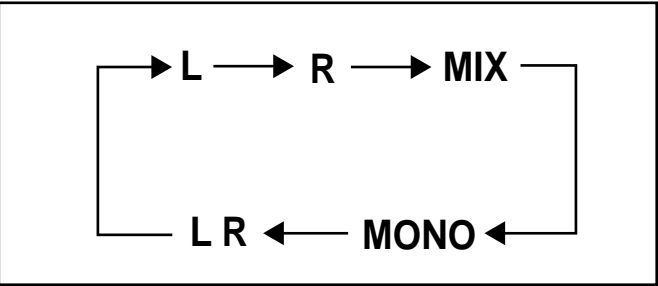
Selecting the Audio Output Mode

You can select the mode in which the sound is reproduced on the loudspeakers and AV outputs. The following options are available.

Selecting the Audio Output Mode



When monitoring a TV programme or playing back a Hi-Fi recorded video tape, press the AUDIO button to select a desired sound output. As the AUDIO button is pressed, the sound output and the indicator change as below :



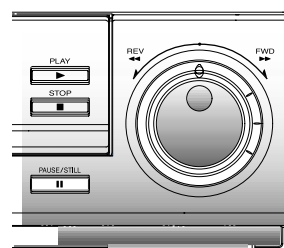
Option	Description
L	Used to listen to the sound on the left Hi-Fi channel
R	Used to listen to the sound on the right Hi-Fi channel
MIX	Used to listen to the mixed sound of the Hi-Fi and normal channels.
MONO	Used to listen to the sound on the normal mono channel.
LR	Used to listen to Hi-Fi stereo sound on the left and right channels. Note : When playing back tapes recorded in Hi-Fi, the sound switches to Hi-Fi after five seconds of Mono.

Searching for a Sequence

You can play a cassette in slow motion.

Note : No sound is heard when playing back a cassette in slow motion

Playing a Cassette in Slow Motion

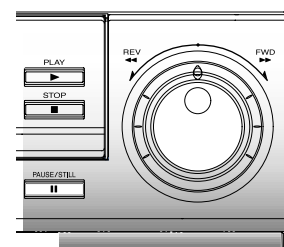
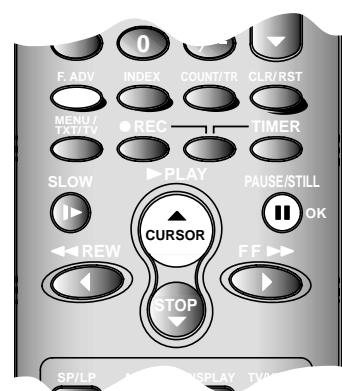


- Press :
 - ▶ PLAY or cursor (▲) to start playing the cassette
 - SLOW (⏮) and release the SLOW (⏮) button on the remote control. If you press the SLOW (⏮) button twice, the playback will SLOW down to 1/12 th of normal speed.
 - To return to the normal speed, press ▶ PLAY or cursor (▲).
- When playing back in slow motion, picture interference may occur. Press the CH/TRK (↶ or ↷) button to minimize this effect.

Using the SHUTTLE DIAL control on the remote or the VTR.
When in PLAY, press the PAUSE/STILL button and operate the OUTER ring on the JOG/SHUTTLE DIAL. The further you turn the ring, the faster the playback. To resume normal playback, press PAUSE/STILL button again.

Note : When you have been using the Slow Motion function for more than about five minutes, the VTR will automatically play to protect the :
 ♦ Cassette
 ♦ Video head

Playing a Sequence Frame by Frame



- You can :
- ♦ Stop the cassette at a given frame (image)
 - ♦ Advance one frame at a time
- Note : No sound is heard when playing back frame by frame
- Press :
 - ▶ PLAY or cursor (▲) to start playing the cassette
 - PAUSE/STILL (⏮) to stop the tape at given frame
 - F.ADV to advance frame by frame
 - To return to normal, press PAUSE/STILL (⏮).

Using the JOG DIAL control on the remote or the VTR.
When in PLAY, when you want to hold an image on screen, simply press the PAUSE/STILL button on the front of VTR. This will freeze the frame for up to 5 minutes.
To forward or backward one frame at a time, turn the INNER ring on the JOG/SHUTTLE DIAL clockwise or anti-clockwise.

To resume PLAY, press the PAUSE/STILL button again.

Note : When you have been using the Frame-by-Frame function for more than about five minutes, the VTR will automatically play to protect the Cassette and Video heads.

Picture Search, Fast Forward/Rewind

Picture Search enables you to Fast Forward or Rewind and look for a particular part of a tape.

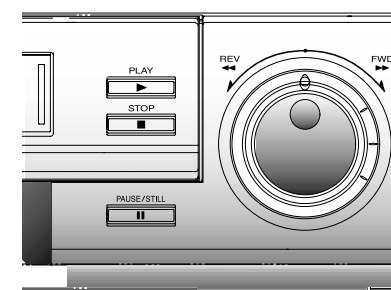
Picture Search, Fast Forward/Rewind



- Press PLAY, the VTR will enter normal play mode. While in play press and release the FF (or REW) button. The VTR will search at 5 times the normal playback speed.
- To return to normal playback mode, press the ▶ PLAY or cursor (▲).
- If you press and HOLD down the FF (or REW) button the VTR will search at 9 times the normal speed. Releasing the FF (▶▶) button will return the VTR to search at 5 times the normal speed. To return to normal playback mode, press the ▶ PLAY or cursor (▲).
- Whilst in Picture Search mode, if you press the FF (▶▶) button again, the VTR will enter normal Fast-Forward mode.
- Likewise, whilst in Picture Search REW mode, if you press the REW (◀◀) button again, the VTR will enter normal Rewind mode.
- If, when Rewinding (REW) or Fast Forwarding (FF), you press the REW (or FF) button, the VTR will enter the Picture Search mode.

Note : When the tape counter is displayed on the screen, pressing REW (◀◀) or FF (▶▶) will return to zero counter position instead of beginning or end of the tape.

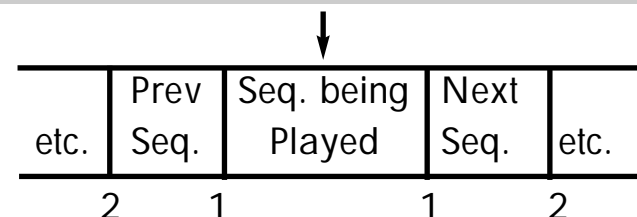
Using the SHUTTLE DIAL control on the remote or the VTR
When in PLAY mode turn the OUTER ring on the JOG/SHUTTLE DIAL clockwise to search forwards and anti-clockwise to search backwards.



Searching for a Specific Sequence

Each time you record a cassette on this VTR, an "index" is automatically marked on the tape when recording starts. The Search function allows you to fast-forward or rewind to a specific index and start playback from that point. Depending on the direction selected, the indexes are numbered as follows:

Searching for a Specific Sequence



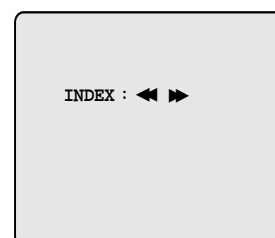
INTRO SCAN

- 1 To search for a specific index, press INDEX.
- 2 Press the REW (◀◀) or FF (▶▶) button depending on the direction where your desired programme is located.
- 3 When an index mark is found the VTR will playback the tape for 5 seconds, after which it will continue searching for the next Index mark.
- 4 If you want to watch the tape from a particular Index, simply press PLAY.

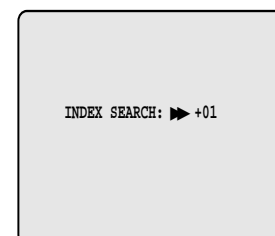
Index Skip Search :

This feature will enable you to fast forward/rewind to a specific point on a tape : E.g. If you have recorded 3 different programmes on a tape and you have rewound the tape to the beginning, by using this feature you can go directly to the start of programme 2 simply by pressing the INDEX button.

- 1 Press the INDEX to start the Index search.



- 2 Press the REW (◀◀) or FF (▶▶) button twice more, This will take you directly to the desired programme is located.



- 3 These Index searches can be made forwards: (press ▶▶) or backwards: (press ◀◀).
- 4 To cancel an Index search simply press the PLAY or STOP button.

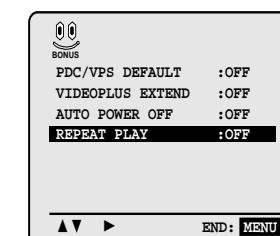
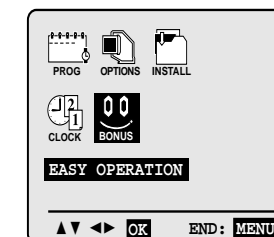
Auto Repeat Play

You can set repeat play to repeat the tape continuously from beginning to end.

Auto Repeat Play



- 1 Press MENU on the remote control.
Result : The programming menu is displayed.
- 2 Press the corresponding ▲, ▼ or ◀, ▶ button to select the **EASY OPERATION** option.
- 3 Press the OK button to select this option.
Result : The **EASY OPERATION** menu is displayed.
- 4 Press the corresponding ▲ or ▼ button, until the **REPEAT PLAY** option is selected.
- 5 To...
Repeat play Do not wish to repeat play
Press ◀ or ▶, until...
ON is displayed
OFF is displayed
- 6 On completion, press MENU twice to exit the menu.



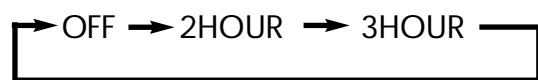
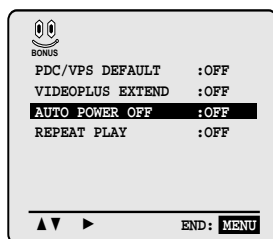
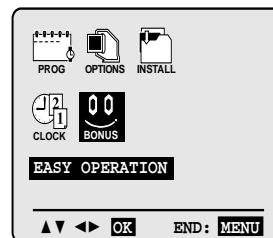
Other Function and Useful Recommendations continued

The Auto Power Off feature automatically turn off your VTR if no signal is received and you do not press any button for the selected time.

Auto Power Off



- 1 Press MENU on the remote control.
Result : The programming menu is displayed.
- 2 Press the corresponding ▲, ▼ or ◀, ▶ button to select the **EASY OPERATION** option.
- 3 Press the OK button to select this option.
Result : The **EASY OPERATION** menu is displayed.
- 4 Press the corresponding ▲ or ▼ button, until the **AUTO POWER OFF** option is selected.
- 5 Press the ▶ button, until you select the time of Auto Power Off interval.
- 6 On completion, press MENU twice to exit the menu.



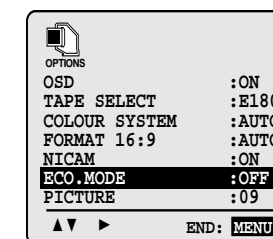
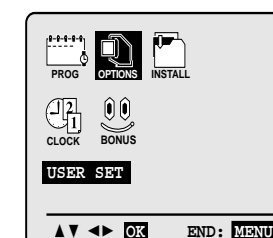
Other Function and Useful Recommendations continued

Low Power Mode reduces the Standby power consumption of the VTR when in Standby mode. Useful, for example, when you are away from the house on holiday. It saves actually turning the VTR off.

ECO Mode-Reducing Standby power consumption



- 1 Press MENU on the remote control.
Result : The programming menu is displayed.
- 2 Press the corresponding ▲, ▼ or ◀, ▶ button to select the **USER SET** option.
- 3 Press the OK button to select this option.
Result : The **USER SET** menu is displayed.
- 4 Press the corresponding ▲ or ▼ button, until the **ECO. MODE** is selected.
- 5 Press the ▶ button to turn ECO mode ON (Low 3Watts). Now, when the VTR is in standby mode the front display panel will shut off. Even the clock disappears. By pressing the ON/STANDBY button again the display panel will reappear.
- 6 On completion, press MENU twice to exit the menu.



Using the tape Counter

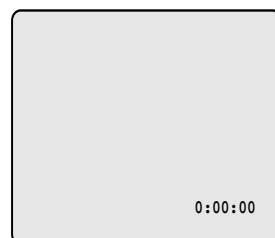
The tape counter :

- Indicates the elapsed time in the play and record modes (hours, minutes and seconds)
- Is reset when a cassette is inserted in the VTR
- Allows you to find the zero position of a prerecorded programmes easily.

Using the Tape Counter



- 1 Insert a cassette in your VTR.
- 2 To set the tape counter to zero at the beginning of a recording or playback:
 - ♦ Press DISPLAY twice to display the counter
 - ♦ Press CLR/RST when you want to set the tape counter to zero
- 3 When you are ready,
 - ♦ Start playback or Recording
 - ♦ Press the STOP button.
 - ♦ To fast-forward or rewind to the position at which the counter was set to zero, press REW (◀◀) or FF (▶▶).



Note:

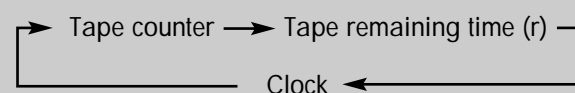
When the tape counter is not displayed on the screen, pressing REW (◀◀) or FF (▶▶) will not return to zero counter position but to the beginning or end of the tape.

Some VTR information, such as the counter, can be displayed on the television screen (unless you have deactivated the OSD mode; refer to page 14).

Press DISPLAY :

- ♦ Once to display the current function, programme number, recording speed, date, time and counter
- ♦ Twice to display the counter only
- ♦ Three times to display the time remaining on the cassette
- ♦ Four times to clear the display.

Some VTR information, such as the time, counter and time remaining can be displayed on the front display panel. Each time you press COUNT/TR, the VTR display changes in sequence as follows:



Other Function and Useful Recommendations

Your VTR remote control will work with Toshiba televisions and compatible brands. To determine whether your television is compatible, follow the instructions below.

Using the TV Buttons on the Remote Control



- 1 Press the TV button on the Remote Control.
- 2 Hold down the TV button and enter the two digits of your TV's brand code (listed on page 60) using number buttons.
- 3 Release the TV button
- 4 With the remote control pointing at the Television, use each button listed below to ensure that the TV is operated correctly.

Button Function

ON/STANDBY	Used to switch the television on and off.
ENTER -/--	Used to enter a two-figure programme number. Example : For programme 12, press -/-- followed by numeric button 1 and 2.
I.SELECT	Used to select an external source.
TV VOL	Used to adjust the volume of the television
CH/TRK (▲ or ▼)	Used to select the required programme.
Numbered buttons	To select TV programmes

Note :

- ♦ If several codes are indicated for your television brand, try each one in turn until you find one that works.
- ♦ When you change the batteries in the remote control, you must reprogramme the code, following the same procedure.

Note :

Some TVs may not respond to all the operations listed above or may not be operated at all with the VTR Remote Control. In which case operation of the TV will have to be by its own Remote Control.

Other Function and Useful Recommendations

continued

Multi Brand Remote Control

Table of Brand Codes

BRAND NAME OF YOUR TV	BRAND CODE	BRAND NAME OF YOUR TV	BRAND CODE
TOSHIBA	01, 09, 15, 16, 17, 18	NORDMENDE	26 , 27
AIWA	28	ORION	47 , 48
AKAI	08	PANASONIC (NATIONAL)	03, 49
BLAUPUNKT	04 , 58	PHILIPS	02, 60 , 61
BRIONVEGA	20	PHONOLA	50 , 62
C.G.M	19	PIONEER	11
COLONAD	13	SABA	41 , 42
DUAL	33	SAMSUNG	43 , 44
EMERSON	13 , 14	SANYO	32
FERGUSON	24	SCHNEIDER	46
FENNER	30 , 31	SELECO	21
GOLDSTAR	03 , 13 , 14	SHARP	05
GRUNDIG	04, 25	SIEMENS	45
HITACHI	06	SINUDYNE	53
HYPER	31	SONY	13, 14, 51, 52, 55
INNO-HIT	34	TEAC	54
IRRADIO	35	TELEFUNKEN	56
ITT	22 , 23 , 29	THOMSON	10
JVC	07	WHITE WESTINGHOUSE	57
LOEWE	12		
MITSUBISHI	36 , 37 , 38 , 39		
MIVAR	19		
NEC	40		
NOKIA	22 , 23 , 29		

TV Frequency table (System-I)

TV Frequency Table

001 ~ 010, 013 : CCIR STD VHF 201 ~ 253 : IRELAND CATV
021 ~ 069 : CCIR STD UHF
071 ~ 086 : CCIR STD , CATV
101 ~ 141 : CCIR CATV

U.K
IRELAND

DISP	CH	Band	Fp	Fosc	STD	DISP	CH	Band	Fp	Fosc	STD	DISP	CH	Band	Fp	Fosc	STD
001	A	V-L	45.75	84.65	IRE	068	E68	UHF	847.25	886.15	U.K	141	S41	UHF	463.25	502.15	CCIR
002	B	V-L	53.75	92.25	IRE	069	E69	UHF	855.25	894.15	U.K	201		V-L	48.00	86.9	IRE-CA
003	C	V-L	61.75	100.65	IRE	071	X	V-L	69.25	108.15	CCIR	202		V-L	56.00	94.9	IRE-CA
004	D	V-H	175.25	214.15	IRE	072	Y	V-L	76.25	115.15	CCIR	203		V-L	64.00	102.9	IRE-CA
005	E	V-H	183.25	222.15	IRE	073	Z	V-L	83.25	122.15	CCIR	204		V-L	72.00	110.9	IRE-CA
006	F	V-H	191.25	230.15	IRE	074	Z+1	V-L	90.25	129.15	CCIR	205		V-L	80.00	118.9	IRE-CA
007	G	V-H	199.25	238.15	IRE	075	Z+2	V-L	97.25	136.15	CCIR	206		V-L	88.00	126.9	IRE-CA
008	H	V-H	207.25	246.15	IRE	076	E02	V-L	48.25	87.15	CCIR	207		V-L	96.00	134.9	IRE-CA
009	J	V-H	215.25	254.15	IRE	077	E03	V-L	55.25	94.15	CCIR	208		V-L	104.00	142.9	IRE-CA
010		V-H	223.25	262.15	IRE	078	E04	V-L	62.25	101.15	CCIR	209		V-L	112.00	150.9	IRE-CA
013		V-H	247.25	286.33	IRE	079	E05	V-H	175.3	214.15	CCIR	210		V-L	120.00	158.9	IRE-CA
021	E21	UHF	471.25	510.15	U.K	080	E06	V-H	182.3	221.15	CCIR	211		V-L	128.00	166.9	IRE-CA
022	E22	UHF	479.25	518.15	U.K	081	E07	V-H	189.3	228.15	CCIR	212		V-L	136.00	174.9	IRE-CA
023	E23	UHF	487.25	526.15	U.K	082	E08	V-H	196.3	235.15	CCIR	213		V-L	144.00	182.9	IRE-CA
024	E24	UHF	495.25	534.15	U.K	083	E09	V-H	203.3	242.15	CCIR	214		V-H	152.00	190.9	IRE-CA
025	E25	UHF	503.25	542.15	U.K	084	E10	V-H	210.3	249.15	CCIR	215		V-H	160.00	198.9	IRE-CA
026	E26	UHF	511.25	550.15	U.K	085	E11	V-H	217.3	256.15	CCIR	216		V-H	168.00	206.9	IRE-CA
027	E27	UHF	519.25	558.15	U.K	086	E12	V-H	224.3	263.15	CCIR	217		V-H	176.00	214.9	IRE-CA
028	E28	UHF	527.25	566.15	U.K	101	S01	V-L	105.25	144.15	CCIR	218		V-H	184.00	222.9	IRE-CA
029	E29	UHF	535.25	574.15	U.K	102	S02	V-L	112.25	151.15	CCIR	219		V-H	192.00	230.9	IRE-CA
030	E30	UHF	543.25	582.15	U.K	103	S03	V-L	119.25	158.15	CCIR	220		V-H	200.00	238.9	IRE-CA
031	E31	UHF	551.25	590.15	U.K	104	S04	V-L	126.25	165.15	CCIR	221		V-H	208.00	246.9	IRE-CA
032	E32	UHF	559.25	598.15	U.K	105	S05	V-L	133.25	172.15	CCIR	222		V-H	216.00	254.9	IRE-CA
033	E33	UHF	567.25	606.15	U.K	106	S06	V-L	140.25	179.15	CCIR	223		V-H	224.00	262.9	IRE-CA
034	E34	UHF	575.25	614.15	U.K	107	S07	V-H	147.25	186.15	CCIR	224		V-H	232.00	270.9	IRE-CA
035	E35	UHF	583.25	622.15	U.K	108	S08	V-H	154.25	193.15	CCIR	225		V-H	240.00	278.9	IRE-CA
036	E36	UHF	591.25	630.15	U.K	109	S09	V-H	161.25	200.15	CCIR	226		V-H	248.00	286.9	IRE-CA
037	E37	UHF	599.25	638.15	U.K	110	S10	V-H	168.25	207.15	CCIR	227		V-H	256.00	294.9	IRE-CA
038	E38	UHF	607.25	646.15	U.K	111	S11	V-H	231.25	270.15	CCIR	228		V-H	264.00	302.9	IRE-CA
039	E39	UHF	615.25	654.15	U.K	112	S12	V-H	238.25	277.15	CCIR	229		V-H	272.00	310.9	IRE-CA
040	E40	UHF	623.25	662.15	U.K	113	S13	V-H	245.25	284.15	CCIR	230		V-H	280.00	318.9	IRE-CA
041	E41	UHF	631.25	670.15	U.K	114	S14	V-H	252.25	291.15	CCIR	231		V-H	288.00	326.9	IRE-CA
042	E42	UHF	639.25	678.15	U.K	115	S15	V-H	259.25	298.15	CCIR	232		V-H	296.00	334.9	IRE-CA
043	E43	UHF	647.25	686.15	U.K	116	S16	V-H	266.25	305.15	CCIR	233		V-H	304.00	342.9	IRE-CA
044	E44	UHF	655.25	694.15	U.K	117	S17	V-H	273.25	312.15	CCIR	234		V-H	312.00	350.9	IRE-CA
045	E45	UHF	663.25	702.15	U.K	118	S18	V-H	280.25	319.15	CCIR	235		V-H	320.00	358.9	IRE-CA
046	E46	UHF	671.25	710.15	U.K	119	S19	V-H	287.25	326.15	CCIR	236		V-H	328.00	366.9	IRE-CA
047	E47	UHF	679.25	718.15	U.K	120	S20	V-H	294.25	333.15	CCIR	237		V-H	336.00	374.9	IRE-CA
048	E48	UHF	687.25	726.15	U.K	121	S21	V-H	303.25	342.15	CCIR	238		V-H	344.00	382.9	IRE-CA
049	E49	UHF	695.25	734.15	U.K	122	S22	V-H	311.25	350.15	CCIR	239		V-H	352.00	390.9	IRE-CA
050	E50	UHF	703.25	742.15	U.K	123	S23	V-H	319.25	358.15	CCIR	240		V-H	360.00	398.9	IRE-CA
051	E51	UHF	711.25	750.15	U.K	124	S24	V-H	327.25	366.15	CCIR	241		V-H	368.00	406.9	IRE-CA
052	E52	UHF	719.25	758.15	U.K	125	S25	V-H	335.25	374.15	CCIR	242		V-H	376.00	414.9	IRE-CA
053	E53	UHF	727.25	766.15	U.K	126	S26	V-H	343.25	382.15	CCIR	243		V-H	384.00	422.9	IRE-CA
054	E54	UHF	735.25	774.15	U.K	127	S27	V-H	351.25	390.15	CCIR	244		V-H	392.00	430.9	IRE-CA
055	E55	UHF	743.25	782.15	U.K	128	S28	V-H	359.25	398.15	CCIR	245		V-H	400.00	438.9	IRE-CA
056	E56	UHF	751.25	790.15	U.K	129	S29	V-H	367.25	406.15	CCIR	246		V-H	408.00	446.9	IRE-CA
057	E57	UHF	759.25	798.15	U.K	130	S30	V-H	375.25	414.15	CCIR	247		V-H	416.00	454.9	IRE-CA
058	E58	UHF	767.25	806.15	U.K	131	S31	V-H	383.25	422.15	CCIR	248		V-H	424.00	462.9	IRE-CA
059	E59	UHF	775.25	814.15	U.K	132	S32	V-H	391.25	430.15	CCIR	249		UHF	432.00	470.9	IRE-CA
060	E60	UHF	783.25	822.15	U.K	133	S33	V-H	399.25	438.15	CCIR	250		UHF	440.00	478.9	IRE-CA
061	E61	UHF	791.25	830.15	U.K	134	S34	V-H	407.25	446.15	CCIR	251		UHF	448.00	486.9	IRE-CA
062	E62	UHF	799.25	838.15	U.K	135	S35	V-H	415.25	454.15	CCIR	252		UHF	456.00	494.9	IRE-CA
063	E63	UHF	807.25	846.15	U.K	136	S36	V-H	423.25	462.15	CCIR	253		UHF	464.00	502.9	IRE-CA
064	E64	UHF	815.25	854.15	U.K	137	S37	UHF	431.25	470.15	CCIR						
065	E65	UHF	823.25	862.15	U.K	138	S38	UHF	439.25	478.15	CCIR						
066	E66	UHF	831.25	870.15	U.K	139	S39	UHF	447.25	486.15	CCIR						
067	E67	UHF	839.25	878.15	U.K	140	S40	UHF	455.25	494.15	CCIR						

For your guidance, before calling for help...

Before contacting the after-sales service, perform the following simple checks.

Problem and Solutions

No power...

- Check that the power plug is connected to a wall outlet.
- have you pressed the VTR ON/STANDBY button?

You cannot insert a video cassette...

- A video cassette can only be inserted with the window side up and the safety tab facing you.

The television programme was not recorded...

- Check the VTR aerial connections.
- Is the VTR tuner properly set?
- Check if the safety tab is intact on the cassette.

Timer recording was unsuccessful...

- Was the two TIMER buttons pressed to activate the timer?
- Re-check the recording start/stop time settings.
- If there was a power failure or interruption during timer recording, the recording will have been cancelled.

No playback picture or the picture is distorted...

- Check to see if you are using a prerecorded tape.

You cannot see normal broadcasts...

- Check the TUNER/EXTERNAL setting. it should be on TUNER.
- Check the TV/VTR aerial connections.

Noise bars or streaks on playback...

- Press the CH/TRK (▲ or ▼) buttons to minimize this effect.

When the PAUSE/STILL (II) button is pressed during playback, the still picture has severe "noise bars" streaks...

- A still picture may have "noise bars", depending on the condition of the tape. Press the CH/TRK (▲ or ▼) buttons during SLOW motion to minimize this effect.

Video Head Cleaning...

- If poor pictures appear on a variety of cassette, the video heads may need cleaning. This is not a common problem and unless it appears, the heads should not be cleaned. When cleaning the video heads, read all instruction provided with the head cleaning as it can permanently damage the video heads.

If when tuning in your TV to the VTR test pattern your TV does not find the test pattern or the pattern when found suffers from interference, it may be due to the VTR output channel clashing with the normal TV transmissions in your area. To prevent this you will need to change the VTR output channel in the following way...

- 1. Remove the aerial input plug from the socket marked (aerial symbol) on the rear of the VTR.
- 2. Carry out the instructions "Tuning Your television for the VTR" (see page 12)
- 3. Carry out the instructions "Setting the VTR output Channel" (see page 15), move the channel number several channels down from the original setting (example : from 60 to 65).
- 4. Replace the aerial plug into the socket marked (aerial symbol) on the rear of the VTR.
- 5. Re-tune your TV to the VTR again by following instructions "Tuning Your Television for the VTR" (page 12).
- 6. If the problem still exists repeat steps 1 to 5 moving several more channels away from the original setting.



If you get any problems
contact the helpline...

Specifications and Accessories

SYSTEM

Format:	VHS PAL standard
Recording system:	Rotary, helical scan system
Heads:	6 head
Video signal system:	CCIR; 625 lines, 50 fields, PAL colour signal, NTSC colour, 525 lines
Tape speed:	SP: 23.39mm/s (PAL) SP: 33.35mm/s (NTSC)
	LP: 11.69mm/s (PAL) SLP: 11.12mm/s (NTSC)
Recording time:	SP: 3 hours with E180
	LP: 6 hours with E180
Winding time:	About 1 minute with E180 cassettes
Dimensions:	430(w) x 94(h) x 240(d)mm
Mass:	3,5 kg approx.
Operating temperature:	+5 to +40°C
Operating humidity:	10%-75%
Mains power:	220 ~ 240V AC, 50Hz
Power consumption:	17W

CONNECTORS

Aerial input:	75Ω coaxial
Aerial output:	75Ω coaxial
Video input:	IN/OUT SCART socket 1.0V(p-p), 75Ω
Audio input:	IN/OUT SCART socket, 308mV(rms), more than 10 kΩ
Video output:	IN/OUT SCART socket, 1.0 V(p-p), 75Ω
Audio output:	IN/OUT SCART socket, 308 mV(rms), less than 1.0 kΩ
	AUDIO OUT Phono socket, 308 mV(rms), less than 4,7 kΩ

VIDEO

Signal-to-noise ratio:	More than 43dB (SP tape speed/PAL)
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AUDIO

Signal-to-noise ratio:	More than 42dB (SP tape speed/PAL/normal mono)
Frequency range:	20Hz to 20kHz
Dynamic range:	More than 90dB
Audio Track:	1 Track (normal-mono), 2 Channels (Hi-Fi sound)

TIMER

Clock:	24-hour digital indication
No of events:	6 events 1 month

TUNER

System:	Frequency synthesizer
Channel coverage:	PAL-I VHF: A - J, 11, 13, E2 - E12 UHF: E21 - E69
	CATV: X, Y, Z, S1 - S41, 1 - 53 (48MHz to 464MHz, 8MHz steps)
Stereo:	NICAM-I
RF converter:	UHF 21 - 69 (adjustable), System-I (Preset : CH36)

ACCESSORIES

Aerial cable x 1	Remote Controller x 1 (batteries UM-4, AAA, IEC R03 x 2)
Design and specifications are subject to change without notice.	

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